# *iWorx*®
## by Taco Electronic Solutions

# BZU2
## Controller



# Web-based building management made easy

# BZU2 CONTROLLER

| Feature | Benefit |
|---|---|
| **Each BZU controls up to 5 heating zones. Up to 24 BZU controls can be networked to a single BLMC Boiler Operating Controller. Allows up to 120 heating zones per BLMC. Up to 8 BLMC's per LCI2.** | Lowers system costs since each BZU can handle up to 5 zones.<br><br>Reduces the number of total controls required saving time and installation expense.<br><br>Easily scalable for any size system whether residential or commercial. |
| **Individual temperature setpoints for each zone. Individual P+I control for each setpoint.** | Customizable temperature settings accommodate variable zone by zone temperature requirements.<br><br>Ensures accurate temperature control in every zone for maximum comfort. |
| **Heat demand output for pump, valve or TT on the boiler** | Works with any boiler, pump or valve no matter what internal controls are supplied.<br><br>Creates a dry contact demand that can be used with any equipment.<br><br>Basic 2-wire TT connections from the heat demand output turns any boiler into a networkable, web enabled component. |

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| **Heat demand or zone demand can be configured to the boiler controller to operate either a high or low temp (mixed temperature) loop.** | Each controller can be assigned to a specific loop type, simplifying high and low temp heat zones or system demands.<br><br>Simplifies radiant and high temp hydronic system installations like fan coils, unit heaters, baseboard or panel radiators. |
| **Warm weather shutdown** | Increases energy efficiency by preventing heating demands when outdoor temperatures exceed the shutdown setpoint.<br><br>Reduces fuel consumption. |
| **Individual zone re-naming** | Allows customization of each zone name for easy identification.<br><br>Provides easy temperature viewing for each zone and helps identify system problems by individual zone for fast troubleshooting.<br><br>System alarms identify each individual zone, isolating problems, saving time and money on service calls. |
| **Automatic configuration to the LCI-2** | One touch commissioning automatically places controller on the network.<br><br>Ensures that controller has been properly installed and wired correctly. |

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| **Unit can be placed in commissioning mode to verify controller operation** | Facilitates trouble shooting and saves valuable service time and labor expense. |
| **"Smart Calc" heat demand calculation** | Eliminates micro loading of boilers, yet enables small zones to receive heat output.<br><br>"Smart Calc" aggregates zone demands from all BZU controllers on a network to ensure that the boilers fire only when the total load demand reaches a level that prevents boiler short cycling.<br><br>Individual zone outputs are energized even though the boiler may not be firing because of a micro load situation. |
| **Indoor feedback from all zones** | Optimizes the reset curve by looking at not only the outdoor temperature, but indoor feedback from all zones to determine the precise supply water temperature for both high and low temperature zones.<br><br>This ensures that maximum comfort is achieved under any condition.<br><br>Accounts for thermal dynamics of each individual building envelope by factoring in wind chill, solar gain, glass exposure, insulating characteristics.<br><br>Maximizes condensing efficiency by operating the system at the lowest possible supply temperature under all conditions based on actual heat loss and not just outdoor temperature. |

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