

Onyx System Features



TC2400

- Compact, robust cabinet design
- HMI - 7" Adjustable touchscreen display,
- Auto tuning and soft start
- Programmable Boost
- Programmable Stand-by mode
- Synchronous Heating and Cooling
- Caster wheels included
- Supplied with 10' input power cable, wired 240v 3 phase in cabinet
- Editable zone names
- Memory management for multiple molds
- USB port for import and export of data and software updates
- Communication alarm board accepts external alarm from 24v DC signal for optional standby & shut down controls
- Multilingual options to include Spanish
- Warranty- 2 year; Human Machine Interface (HMI-screen) 1 year

CATALOG NO.	ZONES	DIMENSIONS	WEIGHT	SHIPPING WEIGHT	REPLACEMENT HMI SCREEN
TC1200	12	13" x 15" x 16.5"	48 lbs.	66 lbs.	HMI51 (7" HMI)
TC2400	24	13" x 15" x 22.5"	65 lbs.	85 lbs.	
TC3600	36	13" x 15" x 28.6"	90 lbs.	156 lbs.	
TC4800	48	13" x 20.4" x 40.5"	167 lbs.	234 lbs.	HMI52 (10.4" HMI)
TC6000	60	13" x 20.4" x 46.6"	194 lbs.	264 lbs.	
TC7200	72	13" x 20.4" x 52.7"	220 lbs.	298 lbs.	



TCFS-15

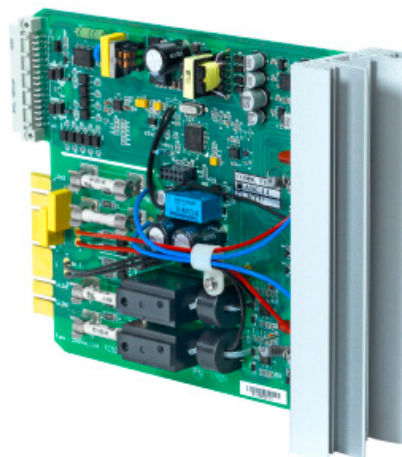
Onyx Floor Stand Options

CATALOG NO.	OPTIONAL ITEM	TRANSFORMER KIT
TCFS	Onyx Floor Stand	Not Included
TCFS-09	Onyx Floor Stand - 9KVA Transformer Kit	TK91AG
TCFS-15	Onyx Floor Stand - 15KVA Transformer Kit	TK151AG
TCFS-30	Onyx Floor Stand - 30KVA Transformer Kit	TK301AG

Onyx Controller Specifications

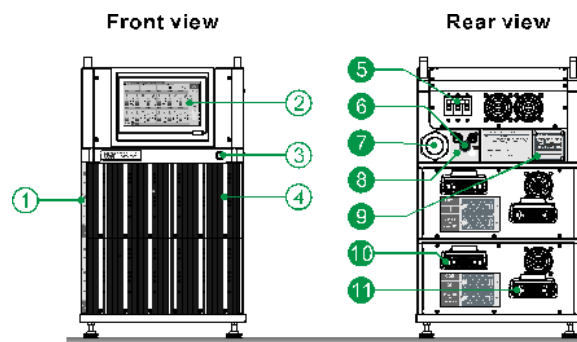
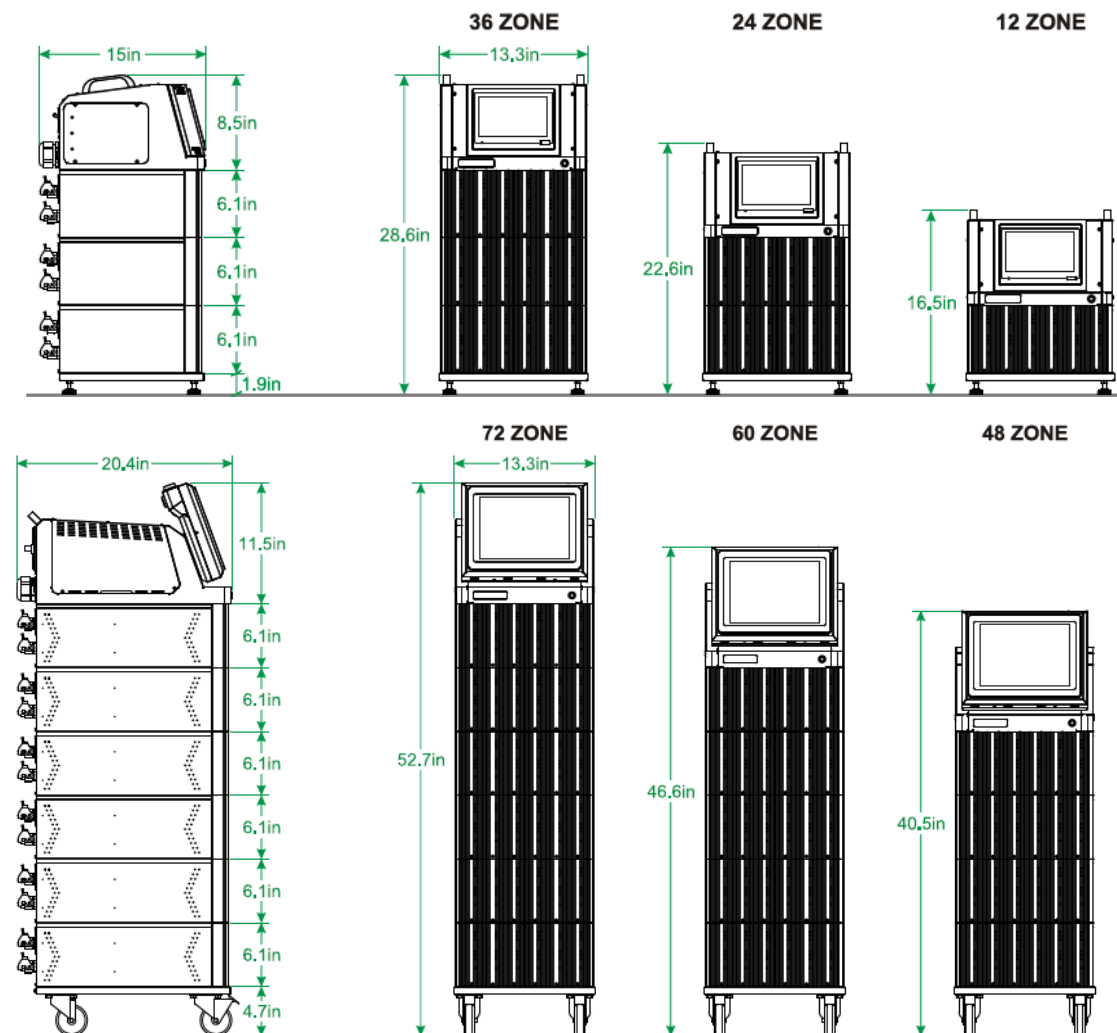


TC1200



SPECIFICATIONS	
User Interface	Full-color LCD HMI touch screen display
Display Size (Inches)	Adjustable 7" TFT SVGA LCD
Temperature Control Accuracy	$\pm 0.25\%FS$
Calibration Accuracy	$\pm 0.25\%FS$
Control Algorithm	Adaptive PID with auto temperature tuning
Temperature Scale	$^{\circ}F$ or $^{\circ}C$ Software Selectable
Thermocouple	Type J/K Software selectable
Operating Temperature Range	32-999 $^{\circ}F$ / 0-600 $^{\circ}C$
Output Voltage	3450W, 230Vac/15A (per zone)
Supply Voltage	Default 240V /three phase with optional wiring
Frequency	50/60Hz
Ambient Temperature Range	14-122 $^{\circ}F$ / -10-50 $^{\circ}C$
Operating Humidity	0-80%RH non-condensing
Anomaly Detection	T/C, Heater, Triac, Fuses
Power Control	Triangulated control technology - Power optimization
Communication Mode	USB port for import/export, job saves, and software updates, RS-485 (Standard MODBUS, Isolated)
Alarm Output & Anomaly Detection	Thermocouple: Short / Break / Reverse Heater: Short / Break / Overload TRIAC: Short, Fuse Open Circuit
LED Indicators	Output, Alarm, Fuse Break, Communication, OVS
Security	Yes, three management lockout levels
Soft-Start with Auto-Tune	Yes
Synchronous heating and cooling	Yes, software selectable
Multi language Support	Yes, English and Chinese
Warranty	2 year; Human machine interface (HMI-screen) 1 year

Onyx Product Diagnostics & Dimensions



CATALOG NO.	REPLACEMENT ITEM
TC52-MDL	Onyx Controller Board (2 Zone)
TC52-BUS	BUS Board
TC52-ALM	Alarm Board
TC52-OVP	Over Voltage Protection Board