Product Line

Model

**TG25** 

# THERMOGLAZE TG25

Belshaw Adamatic's Thermoglaze TG25 is a system that thaws, heats, and glazes pre-fried, frozen donuts with results that equal (and often surpass) the quality of freshly made product.

Belshaw Hohew-adamatic.com Adamatic

The TG25 can process all the varieties of frozen donuts currently available including ring donuts, fritters, long johns, cream and jam-filled donuts and many others. Thermoglaze is easy to learn, can be used in front of customers, and requires no ventilation hood.

The TG25 processes approximately 24 dozen donuts per hour. Heating time and temperature can be modified to suit the product.

The TG25 uses half-size 12<sup>1</sup>/<sub>2</sub>" X 17" glazing screens holding 12 typical donuts each.

Donuts (or similar product) are thawed in the 8-shelf Thermolizer, located at the right of the machine, with adjustable temperature and humidity controls. Donuts can be held in the Thermolizer for up to 5 hours, enabling finished donuts to be produced on demand in under 5 minutes. After thawing/holding in the Thermolizer, the screens full of donuts are conveyed through the oven.

Once heated in the oven, glaze is pumped up to a dispenser which coats each donut with a 1/8'' thick curtain of glaze as they pass through.

After glazing the screens can be placed on a cooling rack. On the opposite side to the Thermolizer, an additional 8-shelf storage (usable either for donuts, or screens) is provided.

For iced donuts, the flow of glaze is turned off, and donuts can be iced on a Belshaw H&I-2 or H&I-4 icer.



Thermoglaze TG25. 8-shelf Thermolizer is shown at right (with door open). Storage shelves are shown at left.







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# Thermoglaze TG25 Standard Features

- All stainless steel construction
- Capacity 24 dozen donuts/hour at thaw time of 20 minutes
- No ventilation hood or fire suppression system required. (Verify with local authorities)
- Heavy duty glaze pump
- Adjustable speed and temperature
- Quiet operation
- Glaze pump can be switched on/off as required
- Easy to clean oven interior
- Mobile with 4" (25mm) casters
- 8 shelves of storage space below for glaze, screens, etc
- Lock-out feature to prevent machine starting while cleaning is in progress
- ETL Certified, conforms to UL-197, CSA C22.2, and NSF-4

## Integrated Thermolizer features

- 8 shelves. At 12 donuts per screen, the thermolizer holds 96 donuts at a time
- · Capacity at thaw time of 20 min: 24 Doz donuts /hour
- Thermostat controlled dry heater for ambient warmth
- Thermostat controlled water element to produce steam
- Blower system for recirculating warm humid air
- 2 clear plexiglass doors
- Powered from central control box on TG25

## CERTIFICATIONS



Certified by ETL to UL-197, UL-710B, NSF-4 and CSA C22.2 standards.

#### Screens

• TG25 uses ½-size glazing screens 12.5" x 17" (32 x 43 cm), Part #TJ-0001. 20-40 screens recommended

Thermolizer

• Volts: 220V/60/1

Kilowatts: 2.3 KW

• Cord: 96" (2.4m)

Plug: NEMA #6-20P

Amps: 10.5 A

#### Electrical data (Requires two electrical connections)

Oven/Glazer

- Volts: 220V/60/1
- Amps: 28 A
- Kilowatts: 6.5 KW
- Plug: NEMA #6-50P
- Cord: 72" (1.8m)

#### Shipping Data

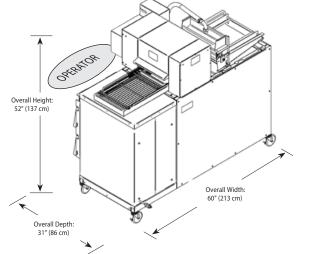
- Shipped on pallet
- Width: 73" (185 cm)
- Depth: 42" (107 cm)
- Height: 62" (158 cm)
- Volume: 110 cubic feet (3.12 cubic meters)
- Shipping weight: 649 lbs (295 kg)
- Freight class: 85

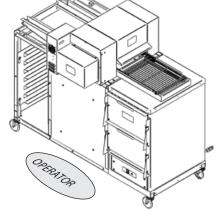
## Optional accessory: H&I-2 or H&I-4 Icer



Water-warmed icing tables for applying icings to donuts warmed on the Thermoglaze system.

- H&I-2 Icer: Two 13" bowls
- H&I-4 Icer: Four 13" bowls
- H&I-2/4 spec sheet<u>http://www.belshaw-adamatic.com/prod</u>ucts/ doughnut-icers/hi4-donut-icer.html





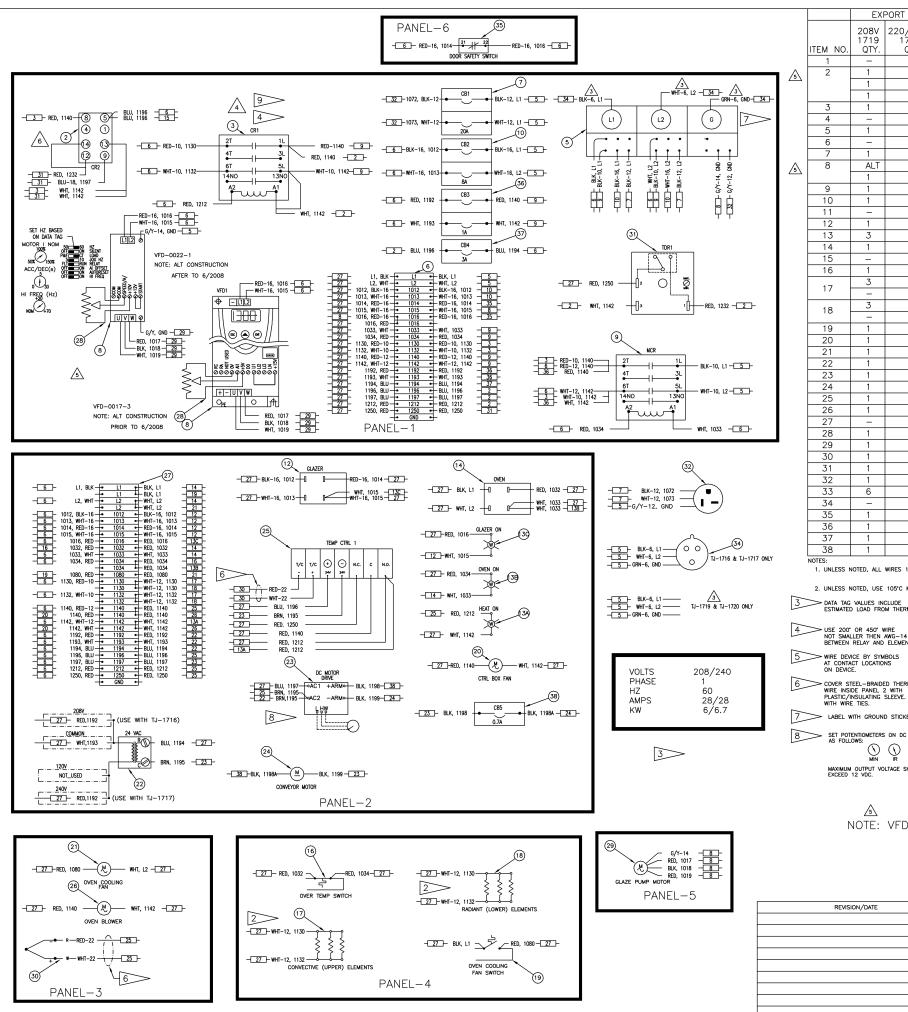
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12.5" x 17" Screen for TG25



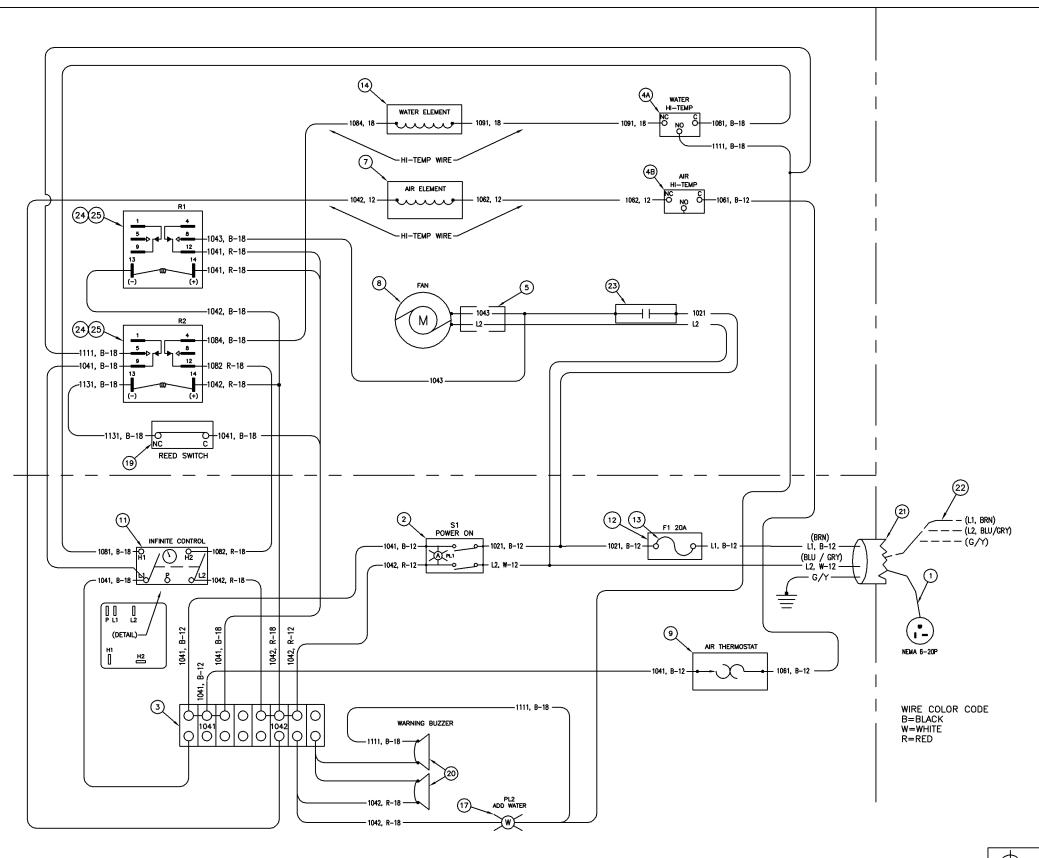
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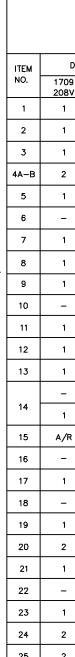




T /2	DOM	IESTIC	BILL OF MATERIAL /					
0/240V		220/240V	, , , , , , , , , , , , , , , , , , , ,					
1720	1716	1717						
QTY.	QTY.	QTY.	PART NO.	DESCRIPTION				
-	-	-	 DIX 0000					
1	1 1	1	RLY-0008 RLY-0008A	RELAY, 240V AC COIL, DPDT, 10A/IN RELAY BASE, DIN RAIL, FINGERSAFE				
1	1	1	RLY-0004B	HOLD DOWN SPRING				
1	1	1	MDD-0460-2C	CONTACTOR, 240/60, 220/50				
_		_						
1	1	1	TM634-0233	POWER DISTRIBUTION BLOCK WHL				
-	-	-		TERMINALS (AS NEEDED)				
1	1	1	CBR-0012-20	CIRCUIT BREAKER, D20 AMP, 2P				
ALT	ALT	ALT	VFD-0017-3	VFD, 230/1PH 3PH OUT, 1/2 HP (SQD)				
1	1	1	VFD-0022-1	VFD, 230/1PH 3PH OUT, 1/2 HP (ABB)				
1	1	1	624-0144	MAGN CONTACR 40A 208/600/50/60				
1	1	1	CBR-0012-8	CIRCUIT BREAKER, D8 AMP 2P				
-	-	-						
1	1	1	624-0003A	TOGGLE SWITCH DPST 20A SLIP ON				
3	3	3	PLT-0001	CLEAR NEON PILOT LIGHT, 250V TOGGLE SWITCH DPST 20A SLIP ON				
1	1	1	624-0003A	TUGGLE SWITCH DEST ZUA SLIP UN				
1	1	1	 DPC-0130-350	THERMOSTAT, SNAP DISC, 350°F				
_	3	-	TJ-0096	HEATING ELEMENT, B; UPPER; 1000W@208V				
3		3	TJ-0096A	HEATING ELEMENT, B; UPPER; 1000W@240V				
-	3	-	TJ-0077	HEATING ELEMENT, A; LOWER; 635W@208V				
3		3	TJ-0077A	HEATING ELEMENT, A; LOWER; 635W@240V				
1	1	1	FSWT-0001	N.O. SNAP DISC THERMOSTAT, 140°F				
1	1	1	ACF-0003-A	FAN, AXIAL, 230V, 50/60 HZ, 3.125				
1	1	1	EP18/24-0170P	AXIAL FAN, 120/240V, 50/60 HZ				
1	1	1	724G-0037B	XFRMER 38VA, 208/240:24V, 50/60 HZ				
1	1	1	TJ-0158-A	DC MOTOR DRIVE				
1	1	1	TJ-0159	GEAR MOTOR, 3.4 RPM, 12VDC				
1	1	1	TJ-0184	DIGITAL TEMP CONTROLLER W/AL AC/DC				
1	1	1	TJ-0084-A	OVEN MOTOR, 230V				
_	_	_		TERMIANLS (AS NEEDED)				
1	1	1	POT-0010-4	POTENTIOMETER, 5K, 2000W				
1	1	1	MTR-0071	GEAR MOTOR; SM-CYCLO, HM-3085				
1	1	1	724G-0144	THERMOCOUPLE				
1	1	1	TDR-0016	TIME DELAY RELAY, 240V INPUT				
1	1	1	PCD-0003	POWER CORD MOLDED RECEPT.				
6	6	6	995-0145	6-3 TYPE SOOW CORD UL				
-	1	1	PLG-0040	PLUG, 2P3W 250V 50A NEMA 6-50P				
1	1	1	SWT-0036	SWITCH, DOOR SAFETY				
1	1	1	CBR-0012-1	CIRCUIT BREAKER, D1 AMP, 2P				
1	1	1	CBR-0011-3	CIRCUIT BREAKER, D3 AMP, 1P				
1	1	1	CBR-0024	CIRCUIT BREAKER, 0.7 AMP, PB RESET				
18AWG								
TUANO		9	CR1 CHANGED FROM RLY-C EFFECTIVE 3/25/08 SK-1527 AVAILABLE FOR FI	012-A TO MDD-0460-C2				
MACHINE 1	TOOL WIRE	-	SK-1527 AVAILABLE FOR FI	ELD REPLACEMENT				
			PANEL-2	PANEL-4 (OPPOSITE SIDE)				
ERMOLIZER								
14 IENTS.				PANEL-3				
				PANEL-6				
			PANEL-5 Z					
ERMOCOUPLE								
E. SECURE			$(\gamma)$					
CKER.			$\bowtie$					
				THERMOLIZER (SEE WIRING DIAGRAW TJ-4001)				
DC DRIVE			/					
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			P)	NEL-1				
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TO REVISION 4 OF THIS DRAWING. CHECK WITH ENGINEERING DEPARTMENT FOR MORE INFORMATION.								
FOR FIELD REPLACEMENT OF VFD-0017-3 USE								
	K–15			VID 0017 0 032				
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	AP	<b>ɔ'</b> D.		JAW BROS INC				
	BELSHAW BRUS., INC.							
			DELSI					
			DELSI	SEATTLE, WASHINGTON				
			TG-	SEATTLE, WASHINGTON				

	1					
	TITLE:	2081//	2401/	50/60 HZ	1 PH	DOM
		2000/2	2101,	00/00 112	, , , , , ,	
	DRAWN:	JD	SERIAL NO.:		DDAWING	
			0 /0 /00		DRAWING NO.:	TJ-4013
	APP'D.: MJL		2/9/06		SHT 2 OF 2 REV 5	





	1						
			DOMES	Т.О.		MATERIAL/ V); TJ-1710 (220V)	
		DOMEST			TJ-1709 (208 TJ-1714 (240)	, , ,	
		DOME	ESTIC	CE	``	, [	
	ITEM NO.	1709 208V	1710 220V	1714 240V	PART NO.	DESCRIPTION	
	1	1	1	-	PCD-0002	POWER CORD, MOLDED 6-20, 12/3, SO, 8FT.	
	2	1	1	1	SWT-0022-240	SWITCH, ILL. AMBER ROCKER, DPST, 250V, 15A	
	3	1	1	1	990-0208F	TERMINAL BLOCK, 20A, 300V, 8 POS.	
	4A-B	2	2	2	DPC-0130-225	SNAP DISK THERMOSTAT	
	5	1	1	1	C800G-0069A	CORD SET, POWER FOR FAN (ITEM 8)	
	6	-	-	-	-	RESERVED	
	7	1	1	1	EP18/24-0250	ELEMENT, HEATING COIL - 2000W @ 240V	
$\bigwedge$	8	1	1	1	EP18/24-0170P	FAN, AXIAL, 230VAC	
<u> </u>	9	1	1	1	EP18/24-0116	THERMOSTAT, 25A, 250V, 70-130 DEG F	
	10	-	-	-	-	RESERVE	
	11	1	1	1	GL100-0086	INFINITE CONTROL, 240V, 15A	
	12	1	1	1	DPC-0128	FUSEHOLDER, 20 AMP, 250V	
	13	1	1	1	GL100-0132F	FUSE, 20A, TYPE ABC	
		_	1	1	TJ-0220B	ELEMENT, WATER HEATER, 600W, 240V	
	14	1	_	_	TJ-0220A	ELEMENT, WATER HEATER, 600W, 20BV	
	15	A/R	A/R	A/R	995-0245	WIRE, HI-TEMP, 240 DEG C	
	16	_	_	_	-	RESERVED	
	17	1	1	1	PLT-0001	PILOT LIGHT, 250V, WHITE	
RN)	18	_	_	_	-	RESERVED	
LU/GRY) )	19	1	1	1	TZ-17-0055	REED SWITCH; LIQUID LEVEL	
	20	2	2	2	MK-0055A	WARNING BUZZER, 120V	
	21	1	1	1	ACS-0008	STRAIN RELIEF CORD GRIP, 90 DEG.	
	22	_	_	8FT	995-0108	12GA 4.0MM H07RN-F 3-COND CORD	
	23	1	1	1	FSWT-0001	N.O. SNAP DISC THERMOSTAT, 140°F	
	24	2	2	2	RLY-0008	RELAY; DPDT; 240V	
	25	2	2	2	RLY-0008A	BASE: RELAY	
		_	_				
E		<u>NOTES</u> :					
		1. USE 105°C MACHINE TOOL WIRE					
						DATA TAG	
	AC VOLTS 208/220/240						
					HZ AMPS	50/60 10.6/10.5/10.0	
	KW 2.2/2.3/2.7						
		BEL	SH /	λW	BROS.,	INC. SEATTLE, WASHINGTON	
TOLERANCE UNLESS NOTED:	Al	THE I	NFORMATION (	CONTAINED IN	THIS DRAWING IS THE S	OLE PROPERTY OF BELSHAW BROS., INC. RWISSION OF BELSHAW BROS., INC. IS PROHIBITED.	
X/X: ±1/32	THF	THERMOLIZER – TJ 208/240VAC, 50/60HZ, 1PH DOM./CE, NO					
( ): REFERENCE	TITLE:	ALLTO WATED, SS WATED DOV					
.XX: ±.030 .XXX: ±.010							
ANGLE: ±1*	MATERIAL:						
В	NTS	JD	12/1	6/05	MJL	TJ-4008 1	
DWG. SIZE	SCALE	DRAWN	D/	ATE	APP'D MFG	DRAWING NO. SHEET 2 OF 2 REV	