



# BLAST CHILL WITH SMART CHILL QUICK REFERENCE GUIDE

## SMART CHILL PROGRAMMING

**Service Menu:** Password (Pin) = 75 – Press Top Left, Top Right, Bottom Right  
**Factory Menu:** Password (Pin) = 85 – Press Top Left, Top Right, Bottom Right

## ERROR CODES

<b>Current Food Probe is Bad:</b>	Food Probe open or shorted during chill cycle	✓	Food probes & connections
<b>Chill Time Exceeded:</b>	Maximum 6hr chill time exceeded	✓	Refrig sys function
<b>Defrost Sensor Failure:</b>	A Coil Sensor is open or shorted OR defrost did not reach 50F before time out	✓	Product type & capacity
<b>No Product Probes:</b>	All product probes open or shorted	✓	Defrost function
<b>Over Temperature:</b>	Air temp has been above 160F for ten minutes or more (no refrigeration)	✓	Food probes and connections
<b>Product Detected:</b>	Triggered by a 40F difference between air temp and probe temp for 10+ minutes	✓	Refrig Sys function
<b>Air Temp Sensor:</b>	Air Sensor open or shorted	✓	Air sensor value
<b>Printer Error:</b>	Printer did not print properly	✓	Food probes, Air sensor values
			Operator is using equipment properly (did not start cycle when product was introduced)
			Air Sensor and connections
			Printer function (see printer service manual)

## NORMAL OPERATION

**Idle (Main Menu):** Air Temp 40F - 37F  
**Blast Chill or EZ Start:** Air Temp 10F – 14F : Product Target Temp 37F  
**Defrost:** Every 3hrs, 50F termination temp : Will not initiate a defrost during a chill cycle  
**Holding:** Once a Chill Cycle completes unit automatically goes to holding mode, 40F – 37F

## COMPRESSOR CYCLING

**Maintenance Compressor:** Energized anytime there is a call for cooling (RBC100 models maintenance also controls cond fan motors)  
**Blast Compressor:** Energized by a call for cooling during a “Chill Cycle” or in “Holding” mode (RBC200 models every other cycle during the “Idle” mode)

## RELAYS AND COLOR CODE

<b>Maintenance Compressor:</b>	Relay: <b>CR1</b>	Coil Wire: <b>Yellow</b>	N/O Terminal: <b>Yellow</b>
<b>Blast Compressor:</b>	Relay: <b>CR2</b>	Coil Wire: <b>Orange</b>	N/O Terminal: <b>Orange</b>
<b>Defrost:</b>	Relay: <b>CR3</b>	Coil Wire: <b>White/Purple</b>	N/O Terminal: <b>Purple ( Blue on RBC200)</b>
	Relay: <b>CR4</b> (RBC200 only)	Coil Wire: <b>Grey ( RBC200 only)</b>	N/O Terminal: <b>Purple (RBC200 only)</b>
<b>Low Fan:</b>	Relay: <b>K1</b> (on relay board)	Coil Wire: <b>N/A</b>	N/O Terminal: <b>Black (TB4)</b>
<b>High Fan:</b>	Relay: <b>K2</b> (on relay board)	Coil Wire: <b>N/A</b>	N/O Terminal: <b>Black (TB4)</b>

**NOTE:** Low fan speed is unused. Both fan relays feed TB4 (high speed).

## PRINT 12HR DATA LOG

**What is 12hr Data Log:** The Smart Chill control records its operation mode and sensor information every five minutes and stores this data in memory. This data can be retrieved at any time for analysis. Send data logs to Shaun Bishop via Fax: 817-740-6757 or Email: [sbishop@traulsen.com](mailto:sbishop@traulsen.com) for analysis.

**How to Print Data Log:**

START:	PRESS:	PRESS:	PRESS:	SELECT:	PRESS:
MAIN MENU	MORE	PRINT	PRINT CYCLE	START TIME FOR 12 DATA LOG	PRINT

## REFRIGERATION PRESSURES

(404a Self Contained Only)

<b>Maintenance:</b>	<b>HI:</b> Ambient + 30 (covert to pressure)	<b>LOW:</b> 25-40 PSIG	<b>SUPERHEAT:</b> 7F
<b>Blast:</b>	<b>HI:</b> Ambient + 30 (covert to pressure)	<b>LOW:</b> 25-40 PSIG	<b>SUPERHEAT:</b> 7F