

#### Your System Configuration

**Temperature Controls** 

Microprocessor

Tank Size 25 lb (11 kg) 3 gal (11 L) 35 lb (15 kg) 4.5 gal (17L) 50 lb (22 kg) 6 gal (23L)

Voltage Requirements 220 VAC, Single Phase, 20 A

Motor Rating 220 VAC, 86 RPM





Hot Melt Technologies, Inc. No One Puts It Together Like HMT<sub>0</sub> 1723 W. Hamlin Rd | Rochester Hills, MI 48309

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#### **Intended Use**

Benchmark<sup>®</sup> and ProFlex<sup>®</sup> adhesive melters and components are designed to melt and pump thermoplastic hot melt adhesives and sealants. Any other use is considered to be unintended. Hot Melt Technologies, Inc. (HMT) will not be liable for personal injury or property damage resulting from unintended use. Intended use includes the observance of HMT safety instructions. HMT recommends obtaining detailed information on the hot melt materials being used.

- The product is only intended for use in industrial applications and may only be used to melt and pump thermoplastic hot melt adhesives (e.g. EVA, PSA, APO, Polyamide).
- The product may only be installed, assembled, commissioned, operated, maintained, repaired, de-commissioned and disposed of by trained personnel.
- The product may only be operated with compatible original components and original accessories from HMT.
- The product is to be used exclusively for the purpose described herein and within the limits defined in this document. The product must not be modified with respect to its structure or its safety features without the written consent of HMT. No changes to the software or hardware of HMT products are permitted. Only use original spare parts, original accessories or standard parts that have been approved by HMT.

The instructions are part of this product. No applications other than those described in the instructions are permitted.

#### **Improper Use**

Examples of misuse of the product include:

- Melting and pumping of unsuitable adhesives (e.g. polyurethane reactive (P.U.R.) a.k.a. "Moisture Cured" adhesives)
- ► In defective condition
- ▶ With electrical cabinet open
- ▶ With the tank lid open
- Melting and pumping materials which, when under vacuum or pressure, can pose a health hazard or endanger safety in the workplace (e.g. solvents, explosive or highly flammable materials)
- ► Cleaning the product with highly flammable materials (e.g. solvents)
- Use in environments that require cleaning of the product with jets or sprays of water
- Processing of food

### **Residual Risks**

In the design of the Benchmark<sup>®</sup> and ProFlex<sup>®</sup> systems, every measure was taken to protect personnel from potential danger. However, some residual risks cannot be avoided:

- Risk of burns from hot material
- Risk of burns when filling the tank, from the tank lid and exposed metal surfaces
- Risk of burns when conducting maintenance and repair work for which the melter or components must be heated up
- ▶ Material fumes may be hazardous; Always avoid direct inhalation

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**STOP** 

If incorrectly used, this machine can cause severe injury. Those who use and maintain the machine should be trained in its proper use, warned of its dangers, and should read the entire manual before attempting to set up, operate, adjust or service the machine.

### WARNING

- Do not allow the pump motor to stall. A prolonged stall may damage the motor and other components.
- Do not connect or disconnect electrical connectors, or remove components, with the power on. This will prevent arcing of electrical contacts and possible failure of components.
- Always close and secure the control panel access cover to protect internal electrical components.
- ► Always operate the system with the tank full and lid on.
- Prior to dismantling, assembly, or adjustment of certain service parts (hose/gun fittings, pump assemblies, etc.), the part(s) being serviced should be preheated to reduce the chance of stripping threads or ruining components.
- Working on or around hot melt adhesives and equipment can cause severe burns.
- Use eye protection, gloves and protective clothing while operating and/or servicing hot melt equipment.
- Before installing any hot melt equipment, determine proper electrical requirements per all applicable codes.

At Hot Melt Technologies, we pay special attention to the needs of operators and service personnel when designing equipment, but molten hot melt adhesives are dangerous and can cause severe burns. Extreme care must be exercised to insure personnel safety.

Fire, explosion, personal injury, property, and/or equipment damage can result if the material(s) used in or around any hot melt adhesive supply unit are toxic, heat, or fire sensitive. Always read the manufacturer's recommended use guidelines.

All HMT units are equipped with over temperature protection as a necessary safety device. Run-away heating can cause hot melt materials to exceed their flashpoint.

## Prevent Serious Equipment Damage

Protect your hot melt equipment by installing a GFEP (Ground Fault Equipment Protector) device in your distribution panel.

HMT recommends that hot melt systems be protected from unintended line-to-ground currents by installing an appropriate ground fault equipment protection (GFEP) device. Contact HMT Technical Service & Support or a qualified electrical contractor for more information. When installing a GFEP device always comply with local electrical codes.

## LEGEND: SAFETY SYMBOLS



Electric Shock Hazard: Line Voltage Present with Machine Power Off. Risk of electrical Shock or Burn

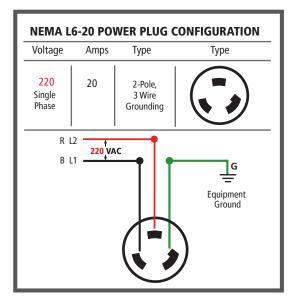




**Consult Service Manual** 

Warning/Caution: Used to draw attention to Hot Surface Warnings, Over Temp Alarms, Hose Routing Practices, and other safety notifications.

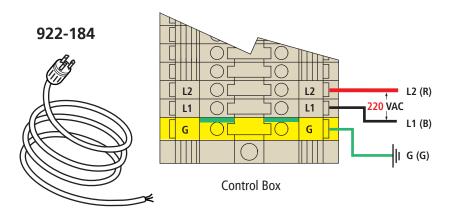
Hot Surface: Surface and surrounding area may be hot. Exercise extreme caution and utilize proper Personal Protective Equipment (PPE).



# Before Using Your Hot Melt System

It is your responsibility and obligation to make sure your system:

- Has been properly installed off the floor and on a steady, level work surface away from combustible materials.
- Has been located in such a way that the controls are away from the operator and that the control panel is securely closed at all times.
- ▶ Is the right capacity system for the intended use.
- ▶ Is connected to the proper power supply.(See Below).
- ▶ Is only used to do what a hot melt system is designed to do.
- ▶ Is not used by anyone unable to operate it properly.
- Is used in an area where the room temperature does not fall below 65 °F.
- Is used in an area which is free from blowing air caused by cooling fans, open doors or windows.



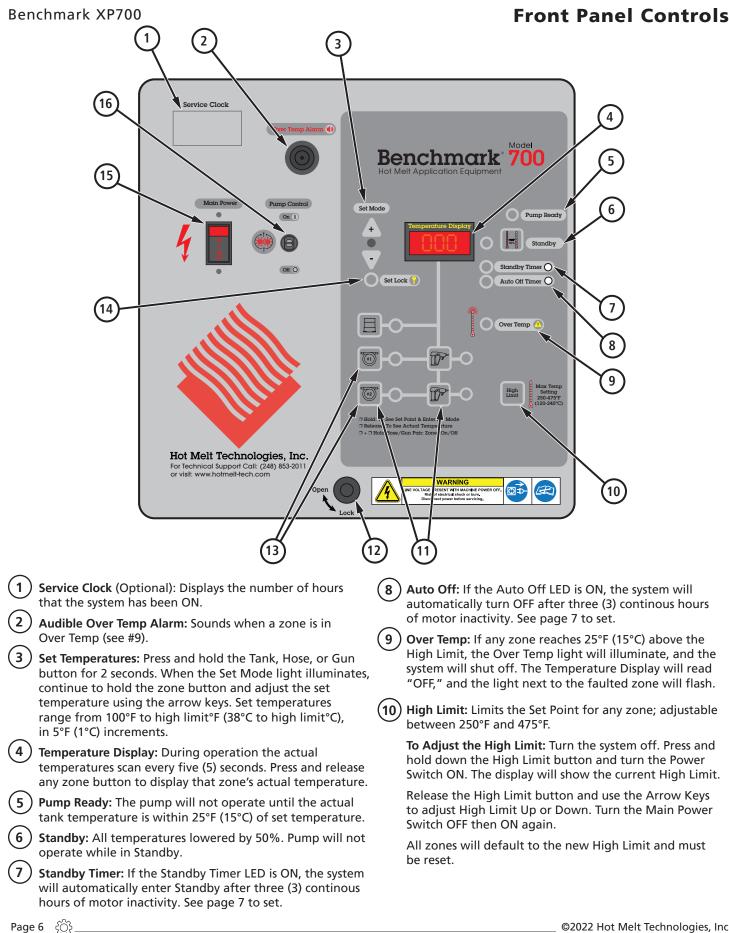
# **Basic Electrical Power Connections**

For 220 VAC Operation

- ► A fused 20 A 220 VAC electrical supply is required. Performance problems will occur with voltages less than 208 VAC or greater than 240 VAC.
- Total amperage draw will depend on the final system configuration; number of hoses & length, guns, accessories, etc.
- ► **Do not** allow the system to share the same circuit with other electrical items. A dedicated supply is recommended.
- **Do not** use an extension cord.
- If you change the configuration of your system in any way that may affect the electrical requirements (ex. add a gun, longer hose, automate, etc.) call HMT Technical Service & Support at 248-853-2011 for assistance.

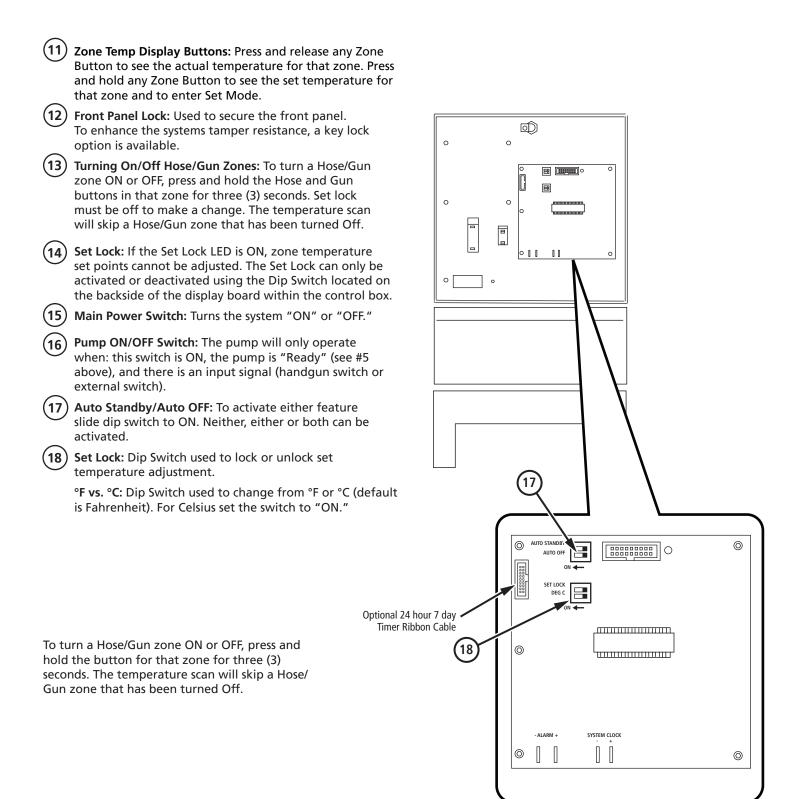
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# **Operating Instructions**

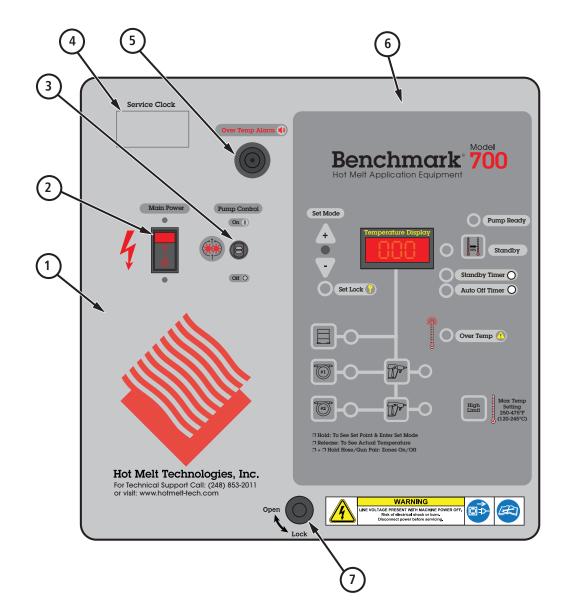


# **Temperature and System Controls**

### Benchmark XP700



**Front Panel** 

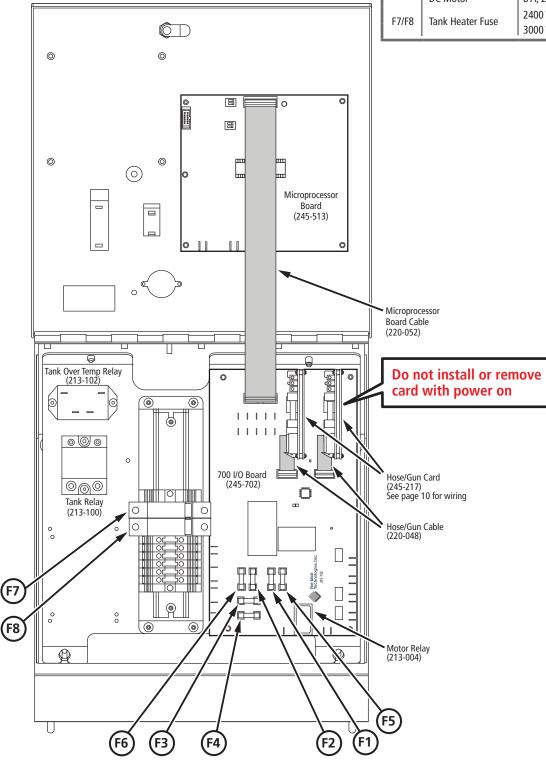


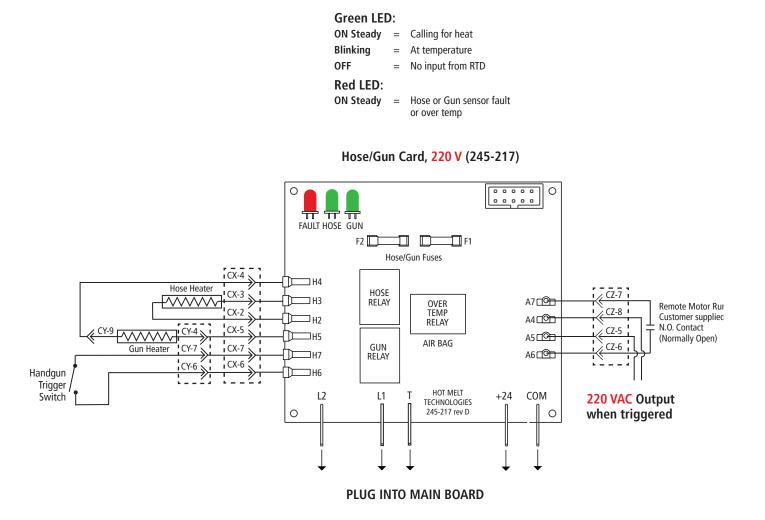
	BILL OF MATERIALS				
ITEM	DESCRIPTION	PART NO	QTY		
1	XP700 Control Box	934-702	1		
2	Main Power Switch	211-220	1		
3	Pump Switch	211-010	1		
4	Service Clock (Optional)	243-004	1		
5	Overtemp Alarm	243-006	1		
6	Decal	340-700	1		
7a	Front Panel Latch, Non-Locking	340-030	1		
7b	Front Panel Latch, Locking (Optional)	340-032	1		

# **Fuse & Relay Chart**

### Benchmark XP700

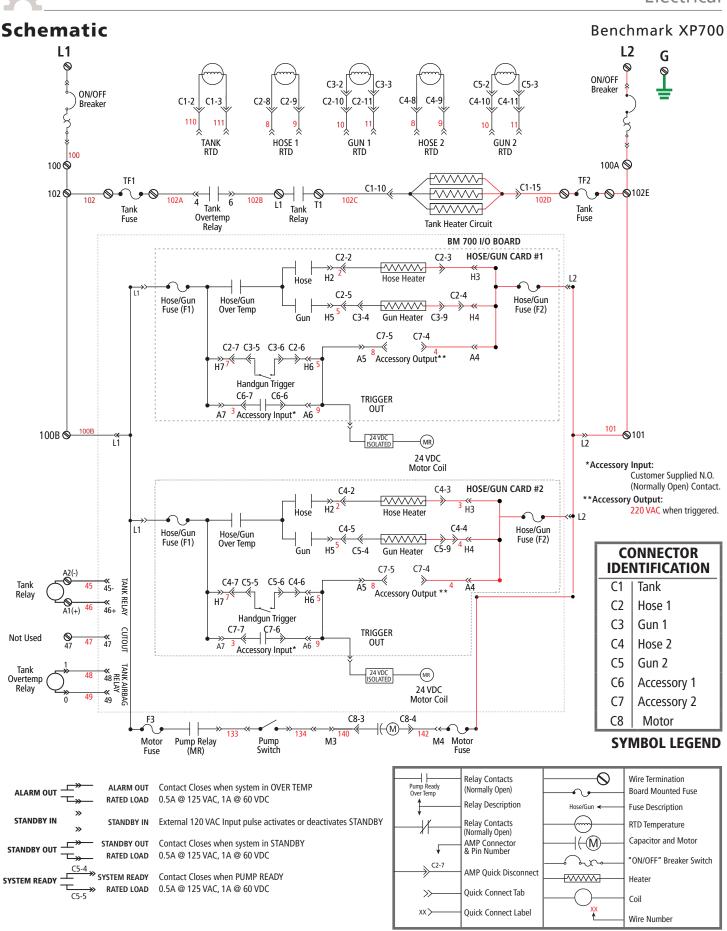
FUSE CHART			
ITEM	DESCRIPTION	<b>REPLACE WITH</b>	PART NO
F1/F5	5 VDC PWR Supply	500 mA, 240 VAC (GMD)	214-501
F2/F6	24 VDC PWR Supply	2 A, 240 VAC (GMD)	214-503
F3/F4	AC Motor	5 A, 240 VAC (GMA)	214-105
	DC Motor	8 A, 240 VAC (GMA)	214-108
F7/F8	Tank Heater Fuse	2400 W = 15 A, 600 VAC (KLKR)	214-315
		3000 W = 15 A, 600 VAC (KLKR)	214-320





FUSE CHART			
ITEM	DESCRIPTION	FUSE RATING	PART NO
F1/F2	Hose/Gun Fuse	8 A, 250 V (AGC)	214-208

CONNECTOR IDENTIFICATION	
CX	Hose connector
CY	Gun connector
CZ	Accessory connector



This Warranty extends to the original purchaser only and commences on the date of the original purchase.

Any part of the Hot Melt Technologies (HMT) adhesive supply unit (ASU) manufactured by HMT and found in the reasonable judgement of HMT to be defective in material and workmanship, will be repaired or replaced by HMT without charge for parts or labor.

This Warranty is limited to:

- a) One (1) year from initial use,
- b) Eighteen (18) months from date of purchase, or
- c) Two thousand (2,000) hours of use, whichever comes first.

The ASU including any defective part must be returned to HMT within the warranty period. All transportation expenses to HMT for warranty work and the expense of returning it to the owner will be paid for by the owner. HMT's responsibility in respect to claims is limited to (at its option) making the required repairs, adjustment, or replacements. No claim of breach of warranty shall be cause for cancellation of the contract of sale of any HMT ASU.

This warranty does not cover any ASU that has been subject to misuse, abuse, negligence, or accident, or which has been operated in any way contrary to the operating instructions. Warranty does not apply to any damage to the ASU that is the result of improper maintenance or installation.

This warranty does not cover any ASU that has been altered or modified by the customer. In addition, the warranty does not extend to repairs made necessary by normal wear or by the use of hot melt materials in the ASU which in the reasonable opinion of HMT are either incompatible with the ASU or adversely affect its operation, performance, or durability. This warranty does not extend to any accessory attachments to the ASU that are warranted separately for different periods of time. Other components supplied by HMT as part of a system will carry the warranty of the original manufacturer.

This warranty does not extend to an ASU damaged during shipment. Risk of loss or damage to the ASU shall pass to the buyer.

HMT reserves the right to change or improve the design of any ASU, or part of an ASU, without assuming any obligation to modify any ASU previously manufactured.

HMT assumes no responsibility for incidental, consequential or other damages including but not limited to: expense for hot melts, delivery or return freight expenses, mechanics travel time, telephone or telegraph charges, rental of a like product during the time warranty repairs are being performed, travel, loss or damage to personal property, loss of revenue, loss of use of the ASU, loss of time or inconvenience.