



*It's All about Building a  
Better Product for Our Clients!*



BREWERS  
ASSOCIATION  
MEMBER

*the J&M Fluidics **Brewers Chiller Line...***

## **Exceptional Cooling Performance for Your Brewing Applications.**

*With  
Advanced  
Controls for  
Today's Brewers  
Critical Cooling  
Processes!*



*Monitor & Control  
the Chiller from  
any Computer  
on Your Network!*

**STAINLESS STEEL Tank Models**

*Proudly  
built in  
Telford,  
Pennsylvania  
USA*

*Visit us at: [www.jmchillers.com](http://www.jmchillers.com)*

**J&M Fluidics, Inc. • 851 Tech Drive • Telford, PA 18969 • (888) 539-1731**



# the J&M Fluidics **Brewers Chiller Line...**

## J&M Fluidics **Brewery Chillers**

Models: 2.1 HP & 3.5 HP

Single  
Circuit

### Standard Features:

2.1, 3.5, 5.5, 6, 8, 10, & 13HP (Single Circuit Models)

- ETL listed to UL1995 & CAN/CSA C22.2 No. 236-11, 4th edition, 10/14/2011
- Single point power connection
- Pentra Microsmart, Programmable Logic Controller (PLC) with easy to use HMI touch screen display
- Door Mounted HMI with weather proof cover
- 5 Port Ethernet Switch (Chiller remote network access control and Modbus capability)
- Remote SMTP services for email alerts
- STAINLESS STEEL Tank
- STAINLESS STEEL Process Pump
- Pump Isolation Valves
- Fused, STAINLESS STEEL evaporator pump
- STAINLESS STEEL, brazed plate evaporator
- Scroll compressor with crankcase heater
- Suction accumulator
- Fluid flow switch
- 24V control transformer
- Direct drive condenser fan motor
- Rust resistant, high CFM, aluminum condenser fan blade
- Condenser(s): copper tube/aluminum fin
- Compressor motor contactor
- Condenser motor and control circuit fusing



- Painted (Powder Coat), galvanized sheet metal cabinet
- 1/2" insulation on all fluid and Low pressure refrigerant lines
- Liquid line drier, sight glass, solenoid, TXV
- Complete refrigerant charge from factory
- **Factory Performance Test prior to shipment**



**User-Friendly  
Touch Screen Display (HMI)  
on ALL J&M Brewery  
Chiller Models**

Chiller System	Brewery Model	Capacity		Glycol Pump	Tank Capacity (Gallons)	Dimensions L x W x H (Inches)	Ship Weight (LBS)	Operating Weight (LBS)	Electrical Data			Glycol Fitting Connections Sizes
		28° F Glycol 90° Ambient	33° F Glycol 90° Ambient						Voltage / Phase / HZ	MCA	MOP	
<b>2.1 HP</b>	PZATB2.1SE6	15,700	17,150	1 HP	20 Gallons	36 x 34 x 68	685	750	208-230 / 1 / 60	32.2	45	1 1/4"
	PZATB2.1SF6								208-230 / 3 / 60	21.2	30	
	PZATB2.1SH6								460 / 3 / 60	10.1	15	
	PZATB2.1SI6								575 / 3 / 60	8.7	15	
<b>3.5 HP</b>	PZATB3.5SE6	27,000	29,500	1 HP	20 Gallons	36 x 34 x 68	690	755	208-230 / 1 / 60	41.1	60	1 1/4"
	PZATB3.5SF6								208-230 / 3 / 60	26.6	40	
	PZATB3.5SH6								460 / 3 / 60	11.9	15	
	PZATB3.5SI6								575 / 3 / 60	11.4	15	



Single  
Circuit

Models: 5.5 HP & 6 HP

HMI  
Protective Cover  
on Every  
J&M Brewery Chiller

Models: 8, 10, 13 HP

Single  
Circuit



Reverse Side

All J&M Brewery Chillers come Standard with our Pentra Microsmart, Programmable Logic Controller (PLC) and easy to use custom software.

**Best-In-Class PLC available for ALL J&M production chiller models.**

Factory installed and programmed into your next J&M Brewery Chiller.

The Pentra PLC will seamlessly interface with our HMI touch screen.



**Pentra PLC Key features include:**

- CE, UL Listed
- Highly Accurate & Fast Performance
- Embedded Ethernet Port
- Modbus (Slave) TCP, RTU and ASCII for integration with most Building Automation Systems (BAS)

- Optional BacNet and LONWORKS communication protocols via third party gateway hardware
- Expandable I/O, ideal for custom chiller control projects
- I/O status indicators on Pentra and I/O modules for easy diagnostics

Chiller System	Brewery Model	Capacity		Glycol Pump	Tank Capacity (Gallons)	Dimensions L x W x H (Inches)	Ship Weight (LBS)	Operating Weight (LBS)	Electrical Data			Glycol Fitting Connections Sizes		
		28° F Glycol 90° Ambient	33° F Glycol 90° Ambient						Voltage / Phase / HZ	MCA	MOP			
<b>5.5 HP</b>	PZATB5.5SE6	44,500	48,600	1 HP	50 Gallons	46 x 34 x 70	800	1085	208-230 / 1 / 60	50	70	1 1/4"		
	PZATB6SF6	46,200	50,500						208-230 / 3 / 60	34.5	50			
PZATB6SH6	460 / 3 / 60								15.5	20				
PZATB6SI6	575 / 3 / 60								13.2	20				
<b>8 HP</b>	PZATB8SF6								60,500	66,100	1200		1500	208-230 / 3 / 60
	PZATB8SH6	460 / 3 / 60	24.5											35
	PZATB8SI6	575 / 3 / 60	22		30									
<b>10 HP</b>	PZATB10SF6	79,900	89,200		2 HP	80 Gallons	75 x 34 x 75	1300	1740	208-230 / 3 / 60	65	102	1 1/2"	
	PZATB10SH6									460 / 3 / 60	30.5	45		
	PZATB10SI6									575 / 3 / 60	22.2	30		
<b>13 HP</b>	PZATB13SF6	97,400	109,000	1400						1840	208-230 / 3 / 60	77.8		125
	PZATB13SH6										460 / 3 / 60	37.6		60
	PZATB13SI6										575 / 3 / 60	29		45



the J&M Fluidics **Brewers Chiller Line...**

J&M Fluidics  
**Brewery  
Chillers**

Models: 10 HP & 12 HP

*Dual  
Circuit*

**Standard Features:**

10, 12, 16, 20, & 26HP (Dual Circuit Models)

- ETL listed to UL1995 & CAN/CSA C22.2 No. 236-11, 4th edition, 10/14/2011
- Single point power connection
- Pentra Microsmart, Programmable Logic Controller (PLC) with easy to use HMI touch screen display
- Door Mounted HMI with weather proof cover
- 5 Port Ethernet Switch (Chiller remote network access control and Modbus capability)
- Remote SMTP services for email alerts
- STAINLESS STEEL Tank
- STAINLESS STEEL Process Pump
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- 24V control transformer
- Direct drive condenser fan motor
- Rust resistant, high CFM, aluminum condenser fan blade
- Condenser(s): copper tube/aluminum fin
- Compressor motor contactor
- Condenser motor and control circuit fusing



Reverse Side

- Painted (Powder Coat), galvanized sheet metal cabinet
- 1/2" insulation on all fluid and Low pressure refrigerant lines
- Liquid line drier, sight glass, solenoid, TXV
- Complete refrigerant charge from factory
- **Factory Performance Test prior to shipment**



*User-Friendly  
Touch Screen Display (HMI)  
on ALL J&M Brewery  
Chiller Models*

Chiller System	Brewery Model	Capacity		Glycol Pump	Tank Capacity (Gallons)	Dimensions L x W x H (Inches)	Ship Weight (LBS)	Operating Weight (LBS)	Electrical Data			Glycol Fitting Connections Sizes
		28° F Glycol 90° Ambient	33° F Glycol 90° Ambient						Voltage / Phase / HZ	MCA	MOP	
<b>10 HP</b>	PZATB10DE6	76,200	85,000	1.5 HP	80 Gallons	75 x 34 x 75	1375	1805	208-230 / 1 / 60	79.7	100	1 1/2"
	PZATB10DF6								208-230 / 3 / 60	61.7	80	
	PZATB10DH6								460 / 3 / 60	26.8	35	
	PZATB10DI6								575 / 3 / 60	21.2	25	
<b>12 HP</b>	PZATB12DF6	90,400	101,000	3 HP			1475	1905	208-230 / 3 / 60	66.3	80	
	PZATB12DH6								460 / 3 / 60	29.5	35	
	PZATB12DI6								575 / 3 / 60	22.8	25	



# the J&M Fluidics **Brewers Chiller Line...**



**Dual Circuit** Models: 16 HP & 20 HP

Model: 26 HP **Dual Circuit**

HMI Protective Cover on Every J&M Brewery Chiller



Reverse Side

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Pentra PLC Key features include:

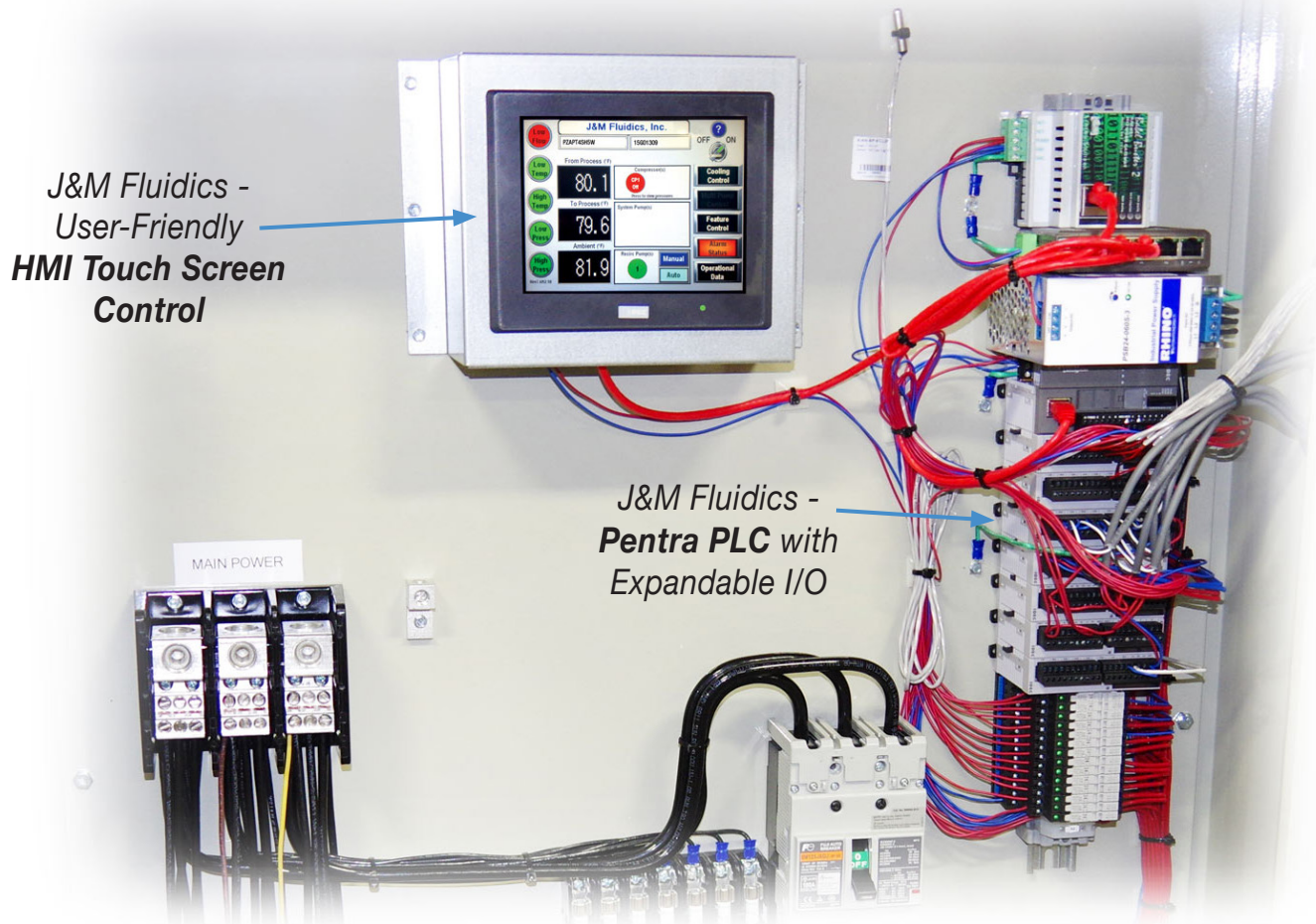
- **CE, UL Listed**
- **Highly Accurate & Fast Performance**
- **Embedded Ethernet Port**
- **Modbus (Slave) TCP, RTU and ASCII for integration with most Building Automation Systems (BAS)**
- **Optional BacNet and LONWORKS communication protocols via third party gateway hardware**
- **Expandable I/O, ideal for custom chiller control projects**
- **I/O status indicators on Pentra and I/O modules for easy diagnostics**

Chiller System	Brewery Model	Capacity		Glycol Pump	Tank Capacity (Gallons)	Dimensions L x W x H (Inches)	Ship Weight (LBS)	Operating Weight (LBS)	Electrical Data			Glycol Fitting Connections Sizes				
		28° F Glycol 90° Ambient	33° F Glycol 90° Ambient						Voltage / Phase / HZ	MCA	MOP					
<b>16 HP</b>	PZATB16DF6	118,400	122,200	3 HP	120 Gallons	85 x 40 x 75	1895	2700	208-230 / 3 / 60	83	110	1 1/2"				
	PZATB16DH6								460 / 3 / 60	42.1	50					
	PZATB16DI6								575 / 3 / 60	32.7	40					
<b>20 HP</b>	PZATB20DF6	159,800	178,400				1985	2770	75 x 65 x 77	2500	3210		208-230 / 3 / 60	104.6	125	2"
	PZATB20DH6												460 / 3 / 60	49.3	60	
	PZATB20DI6												575 / 3 / 60	33.6	45	
<b>26 HP</b>	PZATB26DF6	194,800	218,000			2500	3210	75 x 65 x 77	2500	3210	208-230 / 3 / 60	139.1	175	2"		
	PZATB26DH6										460 / 3 / 60	67.1	90			
	PZATB26DI6										575 / 3 / 60	51.9	60			



*Our Controls Are What Set Us Apart...*

**The J&M - Pentra Microsmart, Programmable Logic Controller (PLC)  
Exceptional Control & Reliability for Your Brew!**



*J&M Fluidics -  
User-Friendly  
HMI Touch Screen  
Control*

*J&M Fluidics -  
Pentra PLC with  
Expandable I/O*

**HMI Touch Screen Chiller Control Features:**

- *USB update slot for IN-PLACE HMI and PLC software updates available from [jmchillers.com](http://jmchillers.com)*
- *Free Software Upgrades*
- *CE, UL Listed*
- *Monitor / Control your chiller from anywhere\**
- *4gb SD card in slot for data storage - Standard*
- *Ultra bright display screen with auto screen saver*
- *Real-time Pressure and Temperature readings*
- *Automatic COMPRESSOR Lag/Lead with FIVE operational modes*
- *Automatic SYSTEM PUMP Lag/Lead with FIVE operational modes*
- *Factory configured for ALL J&M's chiller options*

*\*Some network configuration required.*

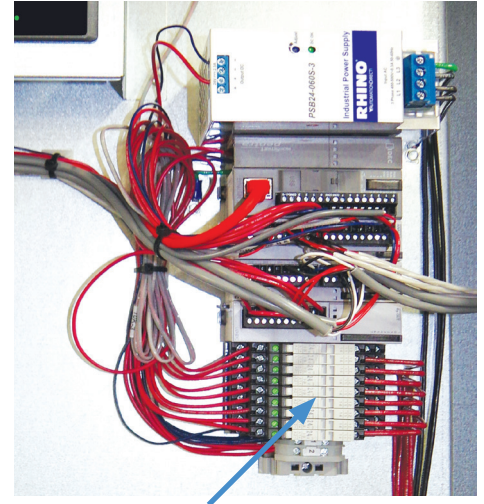
## The J&M - Pentra Microsmart, Programmable Logic Controller (PLC) Features:

**Best-In-Class PLC**  
available for ALL J&M  
production chiller models.

Factory installed and  
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J&M Brewery Chiller.  
The **Pentra PLC** will  
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PLC Controller

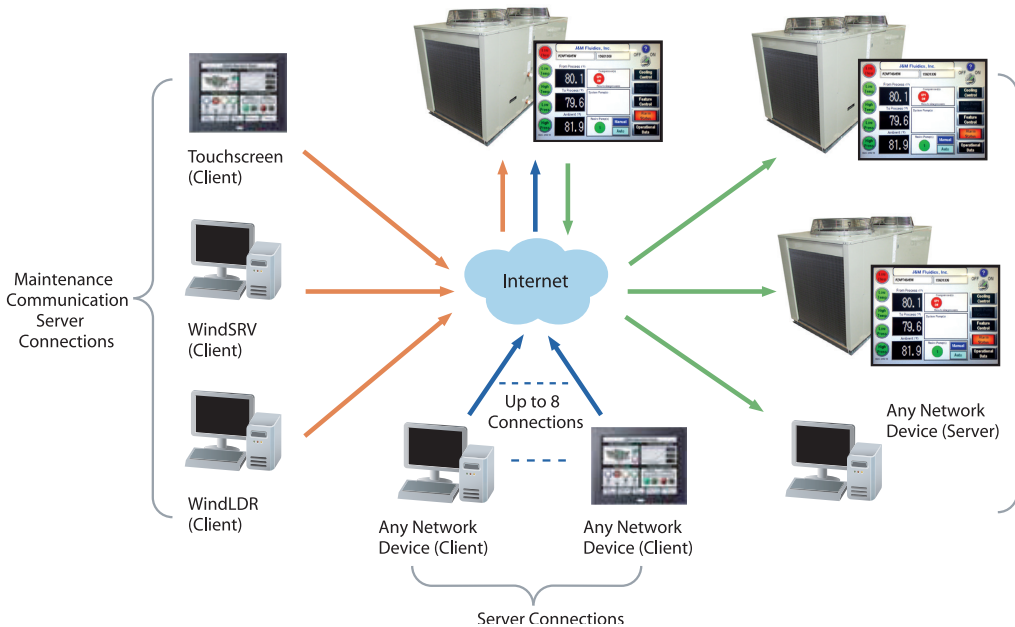


**“Plugin” Control Relays** for quick  
easy replacement. No circuit board to  
replace. Less downtime and cost.

## Offering Extended Connectivity Options...

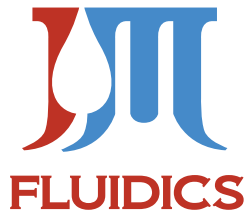
### Up to 14 Simultaneous Connections!

Using Maintenance Communication Server connections, up to 3 Client devices, such as OI touchscreen, WindLDR software and SCADA OPC server such as WindSRV (KepServerEx), can simultaneously communicate with your MicroSmart Pentra PLC. Using Server Connections, an additional 8 connections can be established and each connection can be defined as Maintenance, User Communication or Modbus TCP server protocol. On top of that, another 3 connections can be configured as Modbus TCP client protocol, with a maximum of 255 requests. Each request can be for different slave devices with different IP addresses on the network.



**IMPORTANT CONSIDERATION:**  
J&M offers an optional Level 3 managed switch allowing MODBUS connectivity to the Pentra MicroSmart PLC controller. In most cases, end users firewall settings will need to be updated to allow remote WAN connectivity.





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J&M Fluidics  
**Brewery**  
Chillers

Have Questions? Give Us a Call at:

**(888) 539-1731**

Email: [info@jmchillers.com](mailto:info@jmchillers.com)

Website: [www.jmchillers.com](http://www.jmchillers.com)

<http://www.jmchillers.com/brewery-chillers.html>



*Proudly Built in*  
**America**

Telford, Pennsylvania



BREWERS  
ASSOCIATION  
MEMBER



*Happy Brewing!*  
from J&M Fluidics