



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



BREWERS
ASSOCIATION
MEMBER

*J&M Fluidics **Distillery Chiller Line...***

Exceptional Cooling Performance for Your Distillery Applications.

*With
Advanced
Controls for
Today's Distilleries
Critical Cooling
Applications!*



*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

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

J&M Fluidics **Distillery 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 Distillery
Chiller Models**

Chiller System	Distillery 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	
2.1 HP	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	
3.5 HP	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 Distillery Chiller

Models: 8, 10, 13 HP

Single
Circuit



Reverse Side

All J&M Distillery 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 Distillery 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	Distillery 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				
5.5 HP	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"			
	6 HP	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				
8 HP	PZATB8SF6	60,500	66,100						1200	1500	208-230 / 3 / 60		48.4	70	1 1/2"
	PZATB8SH6										460 / 3 / 60		24.5	35	
	PZATB8SI6				575 / 3 / 60	22	30								
10 HP	PZATB10SF6	79,900	89,200		2 HP	80 Gallons	75 x 34 x 75	1300	1740	208-230 / 3 / 60	65	102			
	PZATB10SH6									460 / 3 / 60	30.5	45			
	PZATB10SI6									575 / 3 / 60	22.2	30			
13 HP	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		

J&M Fluidics **Distillery 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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- Rust resistant, high CFM, aluminum condenser fan blade
- Condenser(s): copper tube/aluminum fin
- Compressor motor contactor
- Condenser motor and control circuit fusing



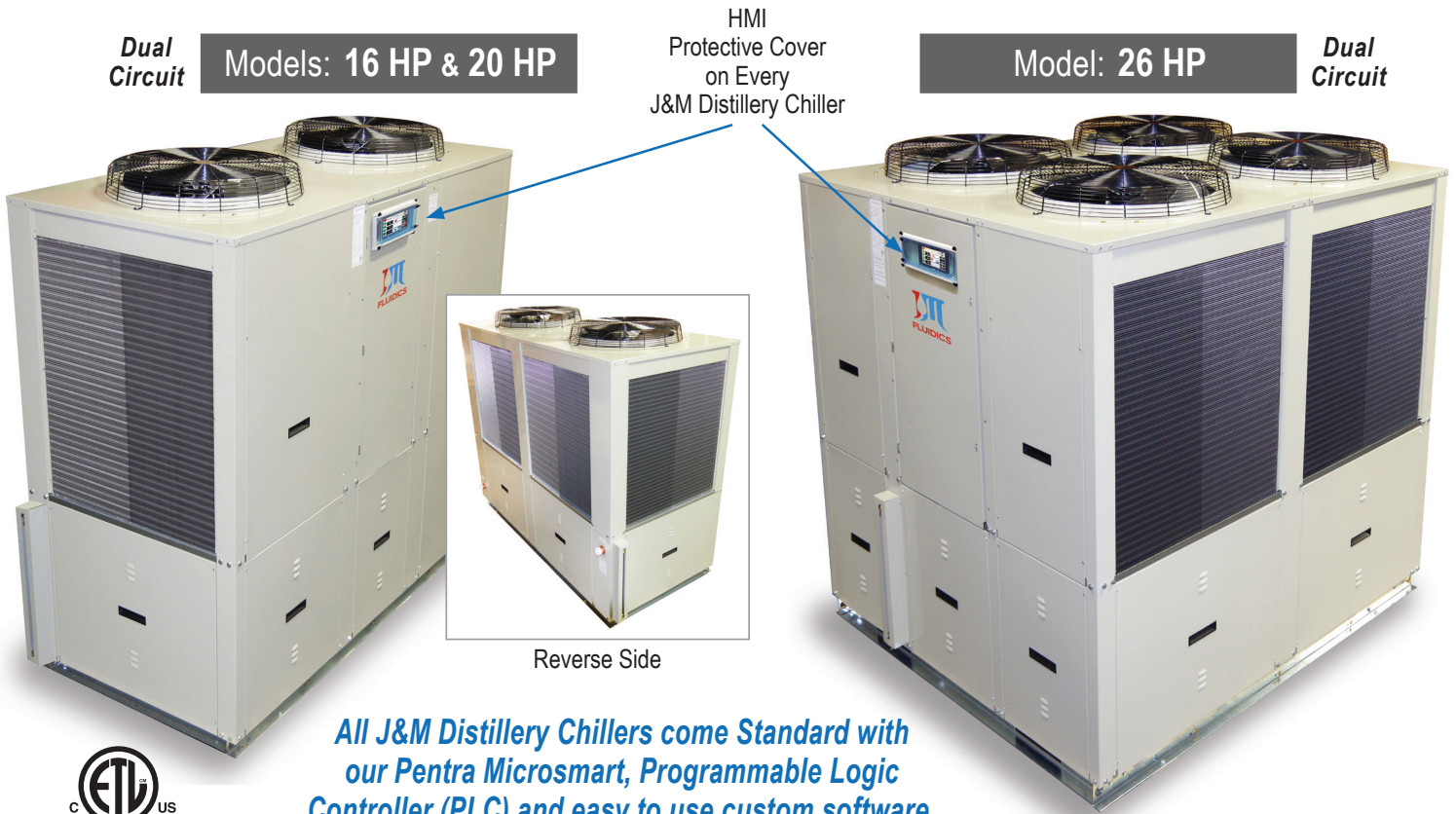
Reverse Side



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

- 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**

Chiller System	Distillery 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	
10 HP	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	
12 HP	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	



Dual Circuit Models: 16 HP & 20 HP

Model: 26 HP **Dual Circuit**

HMI Protective Cover on Every J&M Distillery Chiller



Reverse Side

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Pentra PLC Key features include:

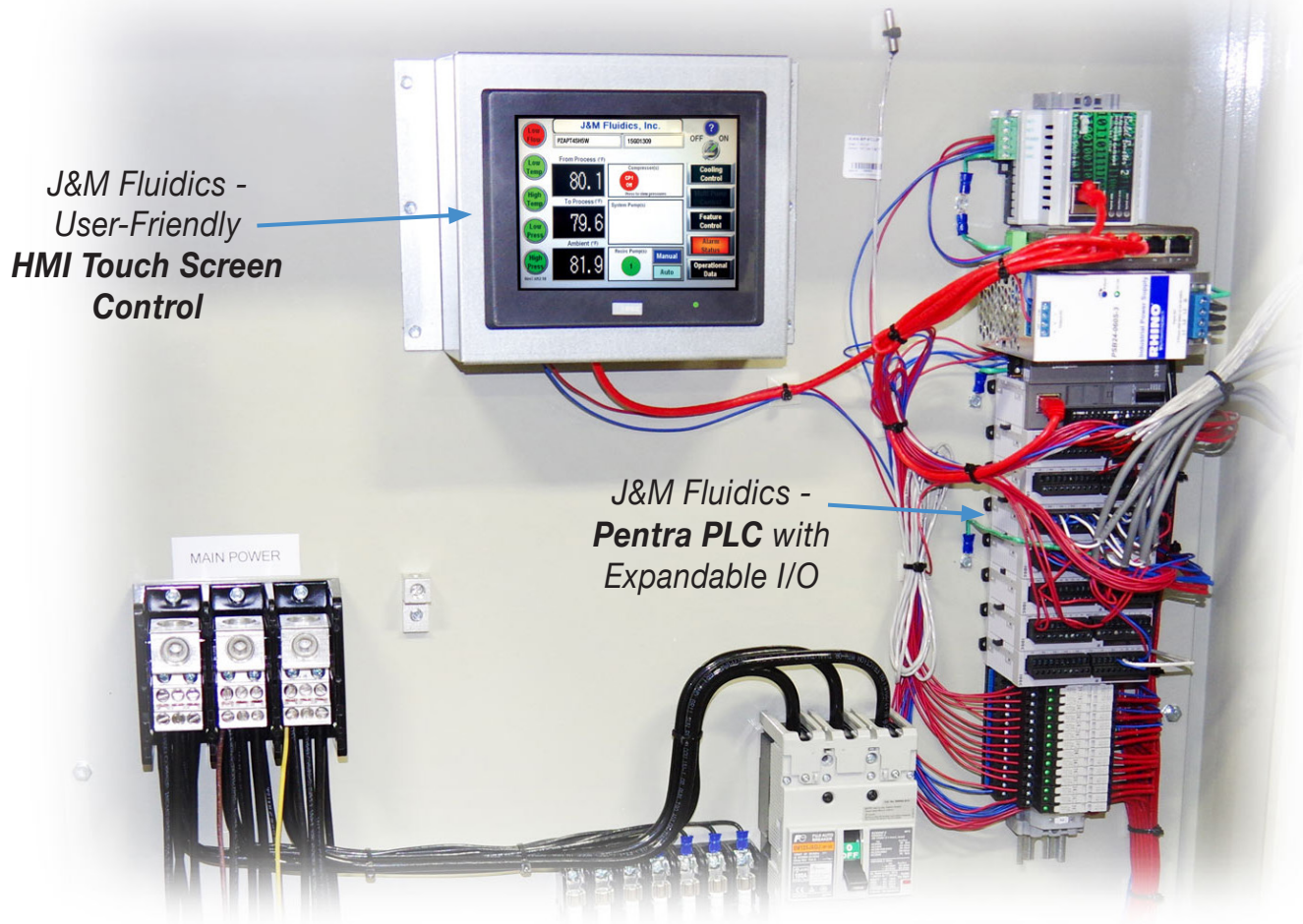
- **CE, UL Listed**
- **Highly Accurate & Fast Performance**
- **Embedded Ethernet Port**
- **Modbus (Slave) TCP, RTU and ASCII for integration with most Building Automation Systems (BAS)**
- **Optional BacNet and LONWORKS communication protocols via third party gateway hardware**
- **Expandable I/O,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

Chiller System	Distillery 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					
16 HP	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					
20 HP	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	
26 HP	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 Distillery Process!



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**
- **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.*

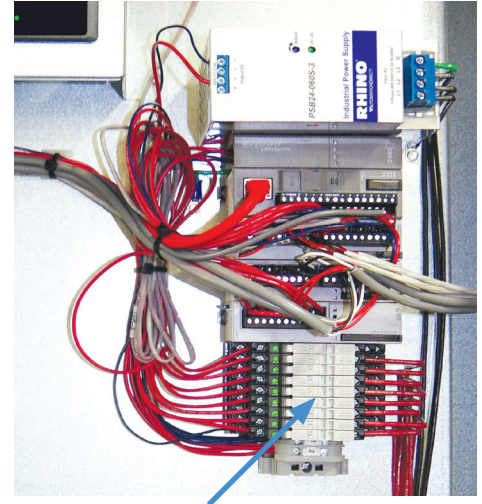
The J&M - Pentra Microsmart, Programmable Logic Controller (PLC) Features:

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PLC Controller

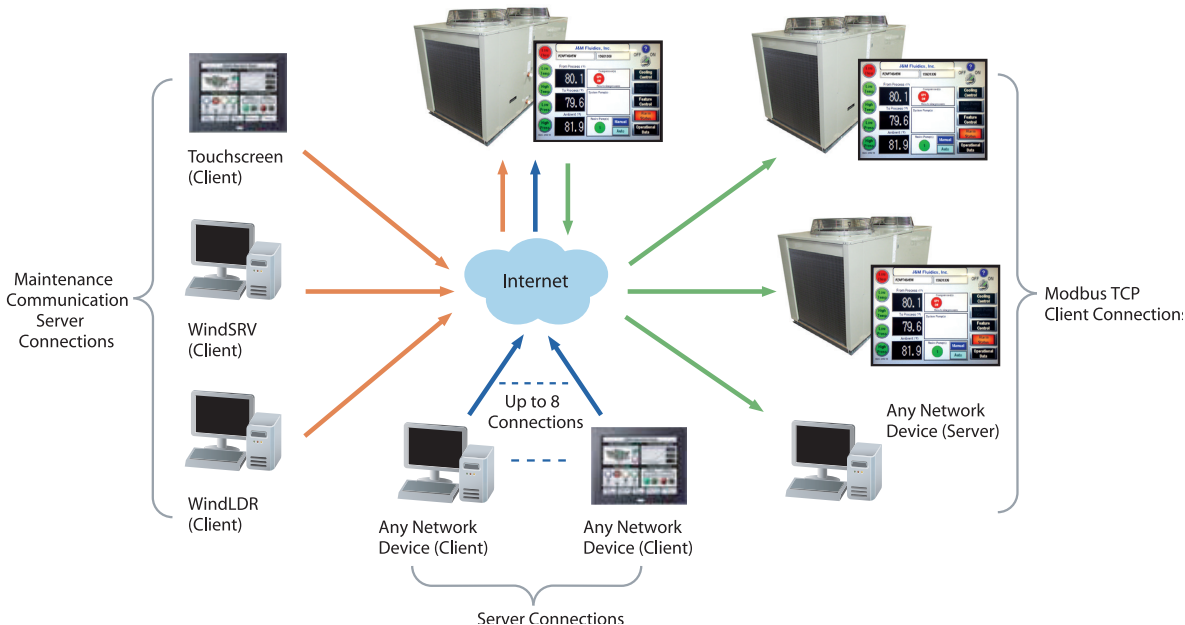


“Plugin” Control Relays for quick easy replacement. No circuit board to replace. Less downtime and cost.

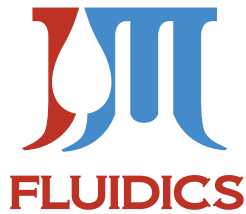
Offering Extended Connectivity Options...

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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Distillery
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Have Questions? Give Us a Call at: **(888) 539-1731**

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Website: www.jmchillers.com



Proudly Built in
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and Distilleries.*



BREWERS
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Happy Distilling!
from J&M Fluidics