

Dresser Proving System



Model 5 5M/20M

The Dresser 5M/20M Model 5 Prover is the newest addition to the Model 5 prover family of transfer provers. The cart-mounted prover gives you the increased capability to prove rotary, turbine and diaphragm meters up to 20,000 acfh, while occupying minimal floor space.

The prover system consists of one or two Master Meter(s) for flow measurement reference, a Controller, and a Windows®-based Computer Software Package for calculations and presentation of the flow, pressure and temperature data and test results. The prover has provisions to test Dresser Meters equipped with integral electronic correctors.

A laptop or personal computer (not provided) is needed to run the prover software.

Model 5 Prover Innovations

- Test air flow rate (up to 20,000 acfh) is automatically controlled by varying blower speed and automatic valve control.
- Automatic controls start and stop the test run.
- Small footprint, cart-mounted design makes transfer prover portable.
- Lower blower speed requirement reduces noise level.
- Network compatible for sharing data and printers.

The Windows® Prover Software performs the smart functions of the system as follows:

- Stores unlimited predetermined meter test configurations.
- Performs all calculations at the end of each test run to display field meter accuracy, data reasonability, and test reports.
- Verifies that all temperature and pressure transducers are properly connected and are yielding reasonable values.
- Provides a protected set-up screen which guides the technician through the factory or field calibration of the system.
- Includes user friendly menu prompts and extensive help screens for operator assistance
- Accepts input from a bar code reader.



Specifications (excludes computer)

Accuracy		+/- 0.55%	
Repeatability		+/- 0.15%	
Ambient Operating Temperature	Master Meter	+32° to +140°F 0° to +60°C	
	Controller, etc.	+36° to +86°F +2° to +30°C	
Ambient Storage Temperature	Master Meter	-40° to +140°F -40° to +60°C	
	Controller, etc.	-40° to +185°F -40° to +85°C	
Humidity		Up to 95% non-condensing	
AC Power	5M Blower	120 volts +/- 15%, 48 to 62 hertz, 10 AMP	
		240 volts +/- 15%, 48 to 62 hertz, 5 AMP	
	20M Blower	240 volts +/- 15%, 50 or 60 hertz, 1-phase, 20 AMP	
	Electronics	120 or 240 volts +/- 15%, 48 to 62 hertz	
Blower Capacity	5M Single	0 to 6,000 acfh at 24 inch differential	
		0 to 170 m ³ /h at 60 milli-bar differential	
	20M Dual	0 to 22,000 acfh at 10 inch differential	
0 to 623 m ³ /h at 60 milli-bar differential			
Compliance		Meets FCC Part-15 requirements	
		NMI and NIST Traceable	
Test Medium		Air	
NOTE: Does not meet explosion proof or Intrinsic Safety requirements. Designed for testing air, only.			
Test Flow Rate	5M Master Meter	50 to 5,600 acfh	
		1.42 to 158 m ³ /h	
	20M Master Meter	200 to 20,000 acfh	
11.25 to 566 m ³ /h			
Net Weight		20M only	665 lbs
		5M/20M	710 lbs.
		Accessory Carton	40 lbs
Shipping Weight		20M only	965 lbs.
		5M/20M	1010 lbs
		Accessory Carton	40 lbs.
Overall Prover Dimensions (l x w x h)		67" x 42" x 36"	
Prover Shipping Dimensions (l x w x h)		75" x 50" x 48"	
Accessory Carton Shipping Dimensions (l x w x h)		14" x 20" x 11"	
Minimum Computer System Requirements	<ul style="list-style-type: none"> • RAM = 1 GB • Screen Resolution = 1024 x 768 pixels • Operating System = Windows XP Pro SP3 (32-bit) or Windows 7 Pro (32- and 64-bit) • Disk Space = 1 GB • CD Drive 		<ul style="list-style-type: none"> • Parallel port for printer operation • RS232 port (USB to serial adapters) = 1 for prover. (Note: Smartprove interface for Microcorrectors will require additional RS232 connection) • Processor = Pentium 4/M or equivalent

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