			Brute Deluxe	_
Date:		Bid Date:	Pump Mounted	
Project #:		Location:	Volume Water Heater	
			Model BMT2V 500-2000 Indoor/Outdo	
Project Na	me:	Engineer:		101
Contractor		Prepared By:	Specification	
Contractor s	hall supply and install Qty.:Brut	e Deluxe, BMT2	V pump-mounted water heater(s).	
certified to c for both indo IV requirement	omply with the current edition of the Ha or and outdoor use. The unit(s) shall b	rmonized ANSI 2 e designed and o ssure, and shall	, rated at the input and output shown on the schedule. The unit(s) shall be design 21.10.3 / CSA 4.3 Standard for Gas Water Heaters, and shall be design certified constructed in accordance with the ASME Boiler & Pressure Vessel Code, Section pear the ASME "H" Stamp. The unit(s) shall be constructed to comply with the .1.	
rolled directl design. All g	y into glass-lined cast iron headers, rat gaskets shall be non-metallic, outside th i from heat. Headers shall have covers	ed for 160 psi (11 ne jacket, and se <sub>l</sub>	en 7/8" (22mm) inner diameter integral finned copper tubes. The tubes shall be 03 kPa) working pressure. The heat exchanger shall be a low water volume parated from the combustion chamber by at least 3.5" (89mm) to eliminate inspection and cleaning of all internal surfaces. The heat exchanger shall have a	l
	ide header shall have removable flangont or top, to facilitate maintenance.	es, and the water	heater design shall permit removal of the complete heat exchanger for service fro	m
piping. Eacl		ne pump time del	to provide the correct heater flow rate, for the heater and 30 feet (9.1m) of full-size ay shall be adjustable from 0.1 to 10 minutes for continued pump circulation after t t's combustion chamber.	
is not detect call for heat, single-try igr	ed, the ignition module shall attempt tw the ignition control shall attempt three	o more times being re-ignition cycles	e-purge cycle to clean out the combustion chamber. Upon a call for heat, if a flam ore locking out, and requiring manual reset. If there is a loss of flame signal during before locking out. (units with some options, such as ASME CSD-1, are built with all be 120V, single phase, less than 12 Amps. Mounted pump shall be 120V, single	g a h
			emperature stainless steel. The burners shall be designed to mix air and gas, and all be in easily-removable burner tray assemblies with no more than 4 burners per	
not less than	n 2000°F (1093°C). The outer jacket sh	nall be a unitized	erboard insulation to retain heat, and shall be approved for service temperatures o shell finished with acrylic thermo-set paint baked at not less than 325°F (163°C). protection. Chamber shall include a sight glass for viewing flame.	ıf
B-vent as a		for horizontal vei	35% thermal efficiency. The unit shall be designed for vertical venting with standal ting as a Category III appliance and shall not require an external draft hood. The ustion air from the room.	
			nnections for an external staging control, and a selector switch to enable the user d staging control, without bypassing any of the heater's safety controls.	to
valve and m		lve seats and ga	have a maximum input of 399,000 BTU/hr. Each gas train shall have a gas shutoff is regulator. Flanges or unions shall be used before and after each main gas valve ray assembly from the front of the unit.	
	shall be provided with an integral, wash om debris. The air filter shall be constru		air filter. The air filter shall provide 83% arrestence to protect the burners and polyurethane foam.	
Heater shall	include as standard equipment the following	owing controls ar	d trim:	
ASME 1	60 psi working pressure heat	<ul> <li>Multiple one</li> </ul>	rating gas valve/pressure regulators • 115/24VAC transformer	
exchan		Manual "A"	33	
<ul> <li>ASME "</li> </ul>	H" stamp	Intake air fil		
<ul> <li>Flanged</li> </ul>	water connections	Multiple, rer	novable burner trays • External controller connections with select	tor
	ned cast iron headers	<ul> <li>Stainless st</li> </ul>		
	l header gaskets	Built-in draf	fan(s) for Category I or III venting  • Hot surface ignition	
<ul> <li>125 psi (8</li> </ul>	861 kPa) ASME rated pressure relief valve	Air pressure	• On/Off togglo switch	



Temperature and pressure gauge

Flow switch

200 Lafayette St. Middleville, MI 49333 Warranty: (800) 531-2111

· Burner site glass

• 24V control system

Pump time delay