		I Daniela Dalama
Date:	Bid Date:	Brute Deluxe
Project #:	Location:	Hydronic Boiler
		Model BMT2H 500-2000 Indoor/Outdoor
Project Name:	Engineer:	
Contractor:	Prepared By:	Specification
Contractor shall supply and install Qty.:	Brute Deluxe, BMT2H boiler(s).	
certified to comply with the current edition of the Boilers, and shall be design certified for both in Boiler & Pressure Vessel Code, Section IV requ	re BMT2H, rated at the input and output are Harmonized ANSI Z21.13 / CSA 4.9 Standard for door and outdoor use. The unit(s) shall be designed uirements for 160 psi (1103 kPa) working pressure, by requirements of the latest edition of ASHRAE St	Gas-Fired Low Pressure Steam and Hot Water and constructed in accordance with the ASME and shall bear the ASME "H" Stamp. The unit(s)
rolled directly into glass-lined cast iron headers design. All gaskets shall be non-metallic, outside	ght tube design with ten 7/8" (22mm) inner diamete , rated for 160 psi (1103 kPa) working pressure. The de the jacket, and separated from the combustion of vers permitting visual inspection and cleaning of al	he heat exchanger shall be a low water volume
The piping side header shall have removable flathe front or top, to facilitate maintenance.	anges, and the boiler design shall permit removal o	of the complete heat exchanger for service from either
Each unit shall have a pump time delay. The pufor heat has been satisfied, to remove residual		ninutes for continued pump circulation after the call
flame is not detected, the ignition module shall during a call for heat, the ignition control shall a		uiring manual reset. If there is a loss of flame signal units with some options, such as ASME CSD-1, are
		the burners shall be designed to mix air and gas, and ner tray assemblies with no more than 4 burners per
not less than 2000°F (1093°C). The outer jacket		at, and shall be approved for service temperatures of mo-set paint baked at not less than 325°F (163°C). lude a sight glass for viewing flame.
venting with standard B-vent as a fan-assisted	all meet a minimum 85% steady state combustion of Category I appliance, and for horizontal venting as and combustion air, or shall be able to pull combustion	a Category III appliance and shall not require an
	boiler shall have connections for an external stagir a field-supplied staging control, without bypassing a	ng control, and a selector switch to enable the user to any of the boiler's safety controls.
valve and main gas valve with built-in redundar		,000 BTU/hr. Each gas train shall have a gas shutoff is shall be used before and after each main gas valve, the unit.
The boiler shall be provided with an integral, wa blower(s) from debris. The air filter shall be cor	ashable combustion air filter. The air filter shall pronstructed out of open-cell polyurethane foam.	vide 83% arrestence to protect the burners and
Boiler shall include as standard equipment the	following controls and trim.	
ASME 160 psi working pressure heat exchanger	<ul><li>Temperature and pressure gauge</li><li>Multiple operating gas valve/pressure</li></ul>	<ul><li>Burner site glass</li><li>24V control system</li></ul>
ASME "H" stamp	regulators	• 115/24VAC transformer
Flanged water connections     Class lined east iron beaders.	Manual "A" gas valve     Intele oir filter	Manual reset high limit
<ul><li>Glass-lined cast iron headers</li><li>External header gaskets</li></ul>	<ul><li>Intake air filter</li><li>Multiple, removable burner trays</li></ul>	<ul> <li>External controller connections with selector switch</li> </ul>
<ul> <li>75 psi (517 kPa) ASME rated pressure relie</li> </ul>	•	Hot surface ignition
valve	Puilt in draft fan(a) far Catagon I ar III vant	· ·



• Flow switch

· Air pressure switch

• Built-in draft fan(s) for Category I or III venting

On/Off toggle switch

· Pump time delay