



SERVICE BULLETIN

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Mach 2019-03

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MACH 10:1 Mechanical Turndown

MACH® Boilers with 10:1 Mechanical Turndown

The MACH® aluminum condensing boiler units are achieving 10:1 mechanical turndown by utilizing a venturi with mechanical flappers that regulate the amount of fuel and air that is being introduced into the burner. This technique allows boiler to maintain high efficiencies throughout the firing rate. The boilers are shipped from the factory configured with fan speed settings to achieve the 10:1 mechanical turndown. It is **critical** that the boiler be **leveled** properly per the O&M manual for the mechanical flappers to operate correctly. The image below shows the location at which this leveling should be performed. **Failure to level the boiler correctly will result in inefficient combustion at the lower firing rates and possible error lockouts.** If there are additional questions about this bulletin, please contact the Patterson-Kelley Technical Service Team at pkhtsupp@harsco.com, or by phone at 877-728-5351.



Unit must be leveled from
the bottom of the intake
basket.