

SUBJECT: Outdoor Reset Controls

Outdoor reset is a common term used in the hydronic industry to describe the adjustment of the boiler's target water temperature setpoint based on the outdoor air temperature. This strategy is used to lower the water temperature of the boiler during periods when the outdoor air temperature is above the design temperature. When used properly, it increases the efficiency of the boiler by allowing it to run at cooler temperatures.

The outdoor reset is a common method used for new residential boilers to comply to the **Department of Energy** regulations (*Energy Independence and Security Act of 2007, effective 9/1/2012*), but this same feature can be used on boilers in existing installations by purchasing one of the following kits:

Gas Boiler Models Only:

GV90+ (Series 2), CGa (Series 2), CGi (Series 3), and EG (Series 5, water only)

Outdoor Sensor Kit: Weil-McLain Part # 381-356-586*

Kit includes temperature sensor, wire harness, and instructions to connect to the boiler ignition control module.

Oil Boiler Models Only:

Ultra Oil (Series 2), WGO (Series 3), & WTGO (Series 3)-with Hydrolevel's HydroStat 3250 control

Outdoor Sensor Kit: Weil-McLain Part # 383-500-126*

Kit includes temperature sensor, wire harness, and instructions to connect to boiler ignition control module.

General Boiler Models:

All boilers that use a dry contact thermostat input can utilize a separate Outdoor Reset Control (ODR) that utilizes both an outdoor air sensor and water temperature sensor. Weil-McLain offers the WM-ODR control kit that provides outdoor reset control with priority override for domestic water heating applications. This control can be used with a wide variety of boilers.

Outdoor Reset Control Kit: Weil-McLain Part # 389-900-210*

Kit includes outdoor reset control module, air temperature sensor, water temperature sensor, wire harnesses, and instructions to connect to boiler ignition control module.

*Meets the automatic, inferred-heat load control operation of section PART 430- "ENERGY CONSERVATION PROGRAM FOR CONSUMER PRODUCTS" Department of Energy Federal Register/Vol.73, No. 145/Monday, July 28, 2008/Rules and Regulations