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Filter Clog Indicator Technical Bulletin 2007-20

GENERAL	NOTES
<p>This bulletin describes in the installation of the “Dirty Filter Indicator” with thermostat AT68544190, by describing the mounting and hookup of the hardware required attach and calibrate a differential pressure switch across the filter of a water to air heat pump thereby energizing an LED on the thermostat signaling the need to replace the filter.</p> <p>Materials: Differential Pressure switch Columbus Electric Model RH3A 3 feet of ¼” Polyethylene tubing with nut and ferrule fittings Mounting Hardware and pressure fittings Thermostat: AT68544190</p> <p>Using the normally open terminals of the pressure switch connect one side to terminal “R” and the other side to terminal “LED 1” of thermostat AT 68544190.</p> <p>On the back side of the thermostat position the switch marked ‘free light icon off’ to the ‘LED #1 icon (Flow)’ position.</p> <p>Mount the pressure switch to the sheet metal duct and connect ¼” Polyethylene tube (WW Grainger #4HM13) to each side of the filter using JG Super Speedfit push in fittings (Grainger 4HN22).</p> <p>Initially adjust the setting of the pressure switch with a clean filter to operate with maximum flow through the filter. Then by blocking 30% of the area of the filter reset the setting of the switch by increasing the differential so that it just trips with maximum airflow (probably cooling)</p> <p>Route the thermostat wires to the pressure switch through ½” Greenfield flexible metal conduit secured every 30”.</p>	