

# FAQ: FLOW VERIFICATION?

## THE SIMPLE METHOD USED TO CONFIRM OIL COOLER FLOW

- The generic test used to verify cooler flow is to take the return line loose from the transmission, place the line into a graduated container, run the engine, and verify you are getting 2 quarts of transmission fluid through the cooler in 20-30 seconds. 2 quarts in 30 seconds = 1 gallon per minute.

Regardless of the model of HECAT Pulsating Transmission Oil Cooler Flusher you are using, the verification of cooler flow is being done while you flush the cooler. Because of the impacting energy of the pulsating action, it has not been possible to employ a flow meter or even a pressure gauge.

The HECAT Pulsating Flusher will push almost 1 gallon a minute of solvent but this is combined with an almost equal amount of compressed air. The combined volume of the flush and the atomizing air being expelled by your Flusher well exceeds the 1 gallon per minute generic test. If the flusher is working and the pulsing is strong, then this confirms adequate cooler flow.

One of the first things you will need to do is familiarize yourself with the strength of the pulsating action. To do this, connect the flush and return hose to the storage fitting on the flusher, run the machine and observe the strength of the pulsing present without any restriction. Now you are ready to connect to a cooler in need of flushing, if the same pulsing action is observed then you have a clean cooler with no restrictions and flow is verified.

If you connect to a cooler and the pulse is present but seems weak, let it run. In most cases you will see the pulse gain in strength indicating you have just witnessed a partially clogged or restricted cooler which has been cleaned.

To see and confirm this process for yourself and to be sure you can clearly identify a restricted cooler. Bend the return line into a kink simulating a restriction in the cooler, and observe how the pulsating action is quickly diminished or may even stop if a restriction is present.

Remember you must always back flush first and then flush in the normal fluid flow direction.

If you do encounter a cooler to have a hard restriction that cannot be flushed out, it should be replaced.



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