Form Number: PV7028 05/13
Part Number 117903

# Installation Instructions – Supplemental

## REPLACING EFFIKAL DAMPER ON POWER VT & POWER VT LOW NOx WITH BELIMO LF120-S DAMPER ASSEMBLY

**Uses Belimo Damper Assembly Part Number 110319 (PVT)**
**Uses Belimo Damper Assembly Part Number 110336 (PVTL)**

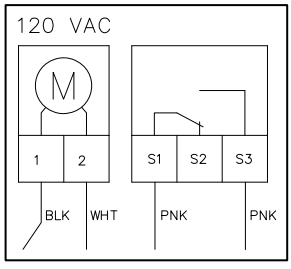
This modification must be performed by a qualified service installer or service agency. These instructions are to supplement the Installation and Maintenance Manual provided with your Power VT water heater.

Before you begin, read and follow these instructions, as well as the information contained in the Power VT Installation and Maintenance Manual. To obtain an additional copy of the Power VT Installation and Maintenance Manual, or for any questions, call PVI Industries, LLC at 1-800-784-8326.

**WARNING: IF THE INFORMATION IN THE SUPPLIED INSTRUCTIONS AND MANUAL(S) IS NOT FOLLOWED EXACTLY, A FIRE, EXPLOSION OR EXPOSURE TO HAZARDOUS MATERIALS MAY RESULT, CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.**

**INSTALLATION INSTRUCTIONS**

1. Disconnect the electrical power.
2. Turn off the gas supply.
3. Disconnect all the wires connected to the Effikal damper:
   - 1 Tan and 1 Red wire connect to the damper motor.
   - 2 Violet wires connect to Switch #2 on the damper.
   - 2 Brown wires connect to Switch #1 on the damper.
   - There may be a green ground wire
4. Remove the (2) sheet metal screws and 1/4” compression fitting from the damper housing.
5. Remove and retain the intake fan and fan guard. These will be reused on the new assembly.
6. Disconnect air tubing
7. Remove Effikal Damper.
8. Install new Belimo Damper Assembly:
   a. Locate damper on burner housing – position motor on top.
   b. Attach damper to burner housing with four sheet metal screws.
9. Wiring Connections:
   a. Connect the **White or Orange** neutral wire to the **Common (1)** wire cable.
   b. Connect the **Black or Brown** wire to the **+Hot (2)** wire cable.
   c. Connect the two **Pink** wires to the **S1** and **S3** wire cables.
   d. Remove the ground wire.




10. Reconnect air tubing.
11. The switching function is adjustable between 0° and 95°. The second stage should make at 25°. Set the dial at 0.1 to make the switch at 25°.
12. If PVT is a staging model, set switch to Low Fire and optimize combustion. Then, optimize combustion at High Fire.

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