

EVERGREEN[®] Pro

MODELS 110-399 CONDENSING GAS BOILERS

Manual Addendum

- EVG 110, 155 Boiler Manual P/N 550-100-210 - EVG 220, 299, 300, & 399 Boiler Manual P/N 550-100-211

This Addendum must be used in conjunction with the Boiler Manual provided with your product.

- ATTENTION to installers and homeowners of Weil-McLain boilers -

KEEP THIS ADDENDUM WITH BOILER MANUAL

Changes to Equivalent Length for Polypropylene (PP) Elbow Fittings

See Page 2 for changes to the "Equivalent length for elbows" section on Page 20 of the P/N 550-100-210 Evergreen 110/155 Boiler Manual

See Page 3 for changes to the "Equivalent length for elbows" section on Page 20 of the P/N 550-100-211 Evergreen 220/299/300/399 Boiler Manual

AWARNING This addendum must only be used by a qualified heating installer/service technician. Read all instructions, including the boiler manual and all other information shipped with the boiler, before installing. Perform steps in the order given. Failure to comply could result in severe personal injury, death or substantial property damage.



Venting & air — general (continued)

Figure 19 Evergreen[®] venting and air piping — DIRECT VENT ONLY — OPTIONS and PIPING LIMITS

NOTICE

The table below lists the acceptable vent/air pipe terminations described in this manual. Follow all instructions provided to install the vent/air system. NOT SHOWN below, but also approved, are the polypropylene piping and terminations listed in Figure 20, page 21. For





Venting & air — general (continued)

Figure 23 Evergreen[®] venting and air piping — DIRECT VENT ONLY — OPTIONS and PIPING LIMITS

NOTICE

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The table below lists the acceptable vent/air pipe terminations described in this manual. Follow all instructions provided to install the vent/air system. NOT SHOWN below, but also approved, are the polypropylene piping and terminations listed in Figure 24, page 21. For these applications, use ONLY the manufacturers' parts listed and follow all instructions provided by the pipe manufacturer.

Maximum vent and air pipe length = 100 feet for all applications (Minimum length for all applications is 2 feet equivalent plus termination) (All applications include allowance for the termination fittings plus one elbow in air piping and one elbow in vent piping). See Figure 24, page 21 for material specifications | See Figure 111, page 117 for part/kit numbers Vent and air pipe sizes: Maximum vent lengths apply for either 3" or 4" vent and air pipe. If using 3" pipe, provide 4"x 3" tapered reducers at boiler connections and at Weil-McLain vent/air cap or at concentric terminations. Evergreen[®] Model Boilers will derate as vent/air pipe length increases — see rating data on Figure 123, page 129 for derate amounts. **SIDEWALL** termination **VERTICAL** termination PVC Concentric PVC or PP Concentric Vertical vent/ Separate pipes Weil-McLain Separate pipes [Note 1] vent/air plate [Note 1 & 2] [Note 1] [Note 1 & 2] Sidewall air [Note 1 & 2] [Note 1] WH-05 A ID VEN See page 25 See page 27 See page 29 See page 31 See page 33 See page 36 Size, Materials Size. Materials Size, Materials Size, Materials Size, Materials Size, Materials inches inches page 21 page 21 inches inches inches inches page 21 page 21 page 21 page 21 PVC/PVC-PVC/PVC-DWV PVC/PVC-DWV PVC/PVC-DWV PVC/PVC-DWV PVC/PVC-DWV 3 3 3 3 3 3 CPVC, PP, SS CPVC, PP DWV CPVC CPVC, PP, SS CPVC, PP CPVC, PP, SS 220 PVC/PVC-DWV PVC/PVC-DWV PVC/PVC-PVC/PVC-DWV PVC/PVC-DWV PVC/PVC-DWV 4 4 4 4 4 4 CPVC, PP, SS CPVC, PP DWV CPVC CPVC, PP, SS CPVC, PP CPVC, PP, SS PVC/PVC-DWV PVC/PVC-DWV PVC/PVC-PVC/PVC-DWV PVC/PVC-DWV PVC/PVC-DWV 299/300 4 4 4 4 4 4 CPVC, PP, SS CPVC, PP DWV CPVC CPVC, PP, SS CPVC, PP CPVC, PP, SS PVC/PVC-DWV PVC/PVC-DWV PVC/PVC-PVC/PVC-DWV PVC/PVC-DWV PVC/PVC-DWV 399 4 4 4 4 4 4 CPVC, PP, SS DWV CPVC CPVC, PP, SS CPVC, PP CPVC, PP CPVC, PP, SS All elbows in vent and air piping must be sweep elbows ONLY. DO NOT use short-radius elbows. When transitioning to 4-inch to 3-inch, use tapered reducer with 4" PVC nipple ($I \ge 6$ "). Do not use 4-inch to 3-inch bushing. Bushing will Not seal in boiler adapter. Equivalent feet for elbows (USE SWEEP ELBOWS ONLY) — deduct from max. equivalent length of piping (does not apply to termination fittings). PVC • 7 feet per for each additional 90° sweep elbow or 45° elbow — If piping contains more than 1 elbow in air or vent piping, other than termination fittings. • Centrotherm 3" - 87° elbow = 8' | 3" - 45° elbow = 3' || 4" - 87° elbow = 8' | 4" - 45° elbow = 3' PP $3^{"} - 90^{\circ}$ elbow = 7' | $3^{"} - 45^{\circ}$ elbow = 3' || $4^{"} - 90^{\circ}$ elbow = 12' | $4^{"} - 45^{\circ}$ elbow = 5' • Duravent Material abbreviations: PP = polypropylene, SS = AL29-4C stainless steel If using polypropylene or stainless pipe, provide adapters for 4" boiler connections and for terminations, if required IPEX PVC concentric vent kits can be used with standard PVC pipe, fittings and cement (ANSI/ASTM D1785) except if ULC S636 compliance is required. For Note 1 ULC \$636 compliance, all pipe, fittings and cement must be IPEX System 636. For UL 1738 compliance all pipe, fittings and cement must be IPEX System 1738. If using IPEX kits, use only IPEX product code listed in Figure 111, page 117. Contact Weil-McLain for ordering information and availability of Weil-McLain venting kits.





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