

ENGINEERING BULLETIN

Subject: Prestige AFUE and Venting Options

Date: 6/28/11

We are focused on continuing to improve the Reliability, Efficiency, Ease of Use and Ease of Installation of the Prestige. As part of this program, we are pleased to announce two upgrades to the Prestige.

- 1) Prestige Solo 60 through Solo 250 and Excellence Boilers are now listed at 96% AFUE. This listing is now on the AHRI website for immediate use. This is especially helpful in areas that require an AFUE of 96% for Fuel Efficiency Rebates.
- 2) We have greatly expanded our ETL third party tested and approved venting options for every Prestige Model. The following highlights these changes:
 - a. 2" PVC/CPVC/PP piping is now approved for the Solo 60, Solo 110, and Excellence 110. The maximum vent or air lengths is 55 feet for the Solo 60 and 45 feet for the Solo 110 and Excellence 110.
 - b. 3" PVC/CPVC/PP/SS maximum vent or air lengths have been increased from 60 feet to 100 feet for the Solo 60, Solo 110, Excellence 110 and Solo 175.
 - c. 3" PVC/CPVC/PP/SS maximum vent or air lengths have been increased from 30 feet to 60 feet for the Solo 250.
 - d. 4" PVC/CPVC/PP/SS maximum vent or air lengths have been increased from 60 feet to 80 feet for the Solo 250.
 - e. 2" PP Flex venting is now available for the Solo 60, Solo 110 and Excellence 110.
 - f. 3" PP Flex venting is now available for the Solo 60, Solo 110, Excellence 110 and Solo 175.
 - g. 4" PP Flex venting is now available for the entire Prestige line.

These improvements will allow the Prestige to be used in an even broader range of installations. Some limitations apply to these venting options. Please refer to the attached table for more information. The manuals are currently being revised to reflect these changes. New EnergyGuide stickers will be available in the beginning of July.



1 Triangle Lane - Blackwood, NJ 08012
Tel: 856 228 8881 - Fax: 856 228 3584 - e-mail: info@triangletube.com

Maximum Equivalent Vent or Air Lengths for Prestige Boilers (in feet)¹

Boiler Model		2" PVC or CPVC ^{2,3} , PP ⁴	2" PP Flex ⁴	3" PVC or CPVC ^{2,3} , PP ⁴ , SS ^{5,6}	3" PP Flex ⁴	4" PVC or CPVC ^{2,3} , PP ⁴ , SS ^{5,6}	4" PP Flex ⁴
PS60	Old	N/A	N/A	60	N/A	100	N/A
	New	55	55	100	100	100	100
PS110/PE110	Old	N/A	N/A	60	N/A	100	N/A
	New	45⁸	45⁸	100	100	100	100
PS175	Old	N/A	N/A	60	N/A	100	N/A
	New	N/A	N/A	100	100	100	100
PS250	Old	N/A	N/A	30	N/A	60	N/A
	New	N/A	N/A	60⁸	N/A	80	80
PS399	Old	N/A	N/A	N/A	N/A	100	N/A
	New	N/A	N/A	N/A	N/A	100	100

NOTES:

- The equivalent length for PVC (Polyvinyl chloride), CPVC (Chlorinated polyvinyl chloride) and SS (AL29-4C Stainless Steel) 45° elbow is 3 feet & 90° elbow is 5 feet. The equivalent length for PP (Polypropylene) 45° elbow is 5 feet & 90° elbow is 10 feet.
- 2" PVC vent requires the first 7 equivalent feet to be CPVC and primer and glue for use with both PVC & CPVC. 2" vent requires 1" clearance from vent to combustibles and transition to 2" must be done at the appliance vent adapter in the vertical direction. BEST PRACTICE use long sweep elbows, especially in CPVC to limit pressure drop and material temperatures.
- The following manufacturers are approved to supply ULC S636 approved PVC or CPVC venting systems meeting Canadian requirements:
 - IPEX Inc.
Phone: 1-866-473-9462
 - IPEX USA, LLC
Phone: 1-800-463-9572
- The following manufacturers are approved to supply ULC S636 approved single wall rigid or flexible PP venting systems meeting Canadian requirements:
 - Centrotherm Eco Systems, LLC
Phone: 1-877-434-3432
Email: info@centrotherm.us.com
 - Muelink and Grol B.V./DuraVent
Phone: 1-800-835-4429
Email: customerservice@duravent.com (CA) or sales@duravent.com (NY)

PP Flex Vent is approved for installation in the vertical direction ONLY in an unused chimney or chase and will require a transition to single wall PP at the appliance vent adapter in the vertical direction and transition to flex vent at the chimney or vertical chase breaching. 2" vent requires 1" clearance from vent to combustibles



PP Rigid Vent must be installed with 0.63 inch/foot slope backwards towards the boiler with supports and vent connectors (clamps) according to PP vent manufacturer's installation instructions. Contact the vent manufacturer for appropriate vent adapters, materials, terminations and instructions.

PP Concentric Vent is ONLY available through Triangle Tube.

PP Common Vent is ONLY available through Triangle Tube and limited to Solo 399.

5. The following manufacturers are approved to supply single wall rigid SS venting systems:
 - a. Heatfab (SelKirk Corporation) Saf-T Vent, EZ Seal
Phone: 1-800-992-VENT (8368)
Email: custsvc@selkirkinc.com
 - b. ProTech Systems (Muelink and Grol B.V./DuraVent) Fas N Seal
Phone: 1-800-835-4429
Email: customerservice@duravent.com (CA) or sales@duravent.com (NY)
 - c. Z-Flex (Nova Flex Group) Z-Vent
Phone: 1-416-679-0045
Email: sales@z-flex.com

Description	Approved Stainless Steel Vent Adapters and Terminations ^{1,5,6}		
	Heatfab (SelKirk Corp.) Saf-T Vent, EZ Seal or Saf-T Vent SC ⁷	ProTech Systems (M&G/DuraVent) FasNSeal or FasNSeal CVS ⁷	Z-Flex (Nova Flex Group) Z-Vent
3" Vent Adapter	9301PVC	FSA-ULT3	2SVSTTA03
3" Roof & Side Wall Straight Termination	9392	300186	2SVSTPF03
3" Side Wall 45° Elbow Termination	9311TERM	300130 & 300186	2SVSTEX0345
3" Side Wall Tee Termination	9390TEE	300311	2SVSTTF03
3" to 4" Vent Adapter	9401PVC3	FSA-ULT3*	2SVSTTA04
4" Vent Adapter (Solo 399)	9401PVC	FSA-ULT4	SVSTTA04.5
4" Roof & Side Wall Straight Termination	9492	300187	2SVSTPF04
4" Side Wall 45° Elbow Termination	9411TERM	300131 & 300187	2SVSTEX0445
4" Side Wall Tee Termination	9490TEE	300312	2SVSTTF04

6. SS Vent must be installed according to the vent manufacturer's installation instructions.
7. SS Concentric Vent contact the vent manufacturer for appropriate vent adapters, materials, terminations and instructions.
8. Boiler high fire input must be derated 3% at the maximum equivalent vent and air lengths only with 2" piping on Solo 110 & Excellence 110 and 3" piping on Solo 250.

