

## The Broken Supply Chain



### Supply and demand.

**I**n addition to the many problems we have had to deal with during 2020 some of the greatest are the lack of raw materials, parts and personnel necessary to maintain essential plant equipment and operations. Shortage of supplies, parts and equipment along with limited access, has stressed the ability of maintenance departments and repair organizations to obtain parts or equipment.

Covid19 has made it necessary to modify plant policies, which in turn has measurably limited the workforce. In some cases key or essential personnel are out of work for several weeks based on symptoms alone, even if they have a negative test.

Answers to the problems being faced are not easy and require much effort to stay within the guidelines established for personnel health and safety.

### Supply issues:

- Where possible, and funds allow, order spare parts for essential equipment, maintenance departments are aware which items fail the most or if failure occurs will stop or limit production.
- Locate and place alternate vendors for essential parts and equipment on your approved vendors list.

### Haste make waste:

- Allow your maintenance personnel to concentrate on the work at hand. Schedule

maintenance for the most critical equipment first during down periods. Do not schedule projects that can reasonably be delayed while critical maintenance is being performed.

- When scheduling maintenance allow enough time to complete the project properly.

### **Vendors:**

- Assess the value added services vendors can provide and utilize them as a go to source for matters beyond plant maintenance, personnel, ability, or time restraints.
- Do not schedule plant maintenance that will interfere with the ability of the vendor to complete the work scheduled.
- Schedule enough time for the vendor to complete and verify the work has been completed properly. Proof testing of the project is always best done while the vendor is still on site.

### **Employees:**

Employee issues can be a challenge. Key personnel have a tendency to keep their knowledge and tricks of the trade to themselves. Knowledge

and work ethics are leaving with the older workforce as they retire.

- Acquiring and maintaining personnel with the proper skill sets is essential to both maintenance and operations.
- Develop a mentor program that passes the skills of more experienced workers to other employees. Personnel that are currently coming into the work force with or without a college degree, do not have trade skills necessary to be the mainstay of the operation; they need to be developed.
- As the older work-force retires, knowledge and work ethics are leaving with them.
- By establishing a mentor program you give younger, less experienced workers a purpose and a sense of participation that may produce a top leader. These items not only affect the operation of manufacturing facilities but are applicable to schools, hospitals, restaurants and other types of business or services people depend on.

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## **Notice from the State of North Carolina**

### ***To Power Boilers Owners/Operators and Equipment Suppliers***

A threaded NPS 2 forging brass ball valve, with a marked steam working pressure of 150 psig, failed while in service as a high pressure steam boiler blow-off valve. The boiler was designed to operate at a maximum allowable pressure of 125 psi. The failure occurred when the body of the valve, which was of two-piece construction, came apart, resulting in the release of high temperature water and steam from the boiler. In this incident, a worker in the vicinity of the boiler received serious burns and later died in hospital.

While the cause of the incident might not be the material specification, the preliminary findings of an Alberta Boilers Safety Association

investigation into the incident indicate the forging brass material specification of the valve was not permissible for a boiler external piping application.

Boiler blow-off valves and the piping that joins the valves and other fittings to the boiler must be designed and constructed in compliance with the requirements of the ASME B31.1 Power Piping Code for boiler external piping. The material specification of the valve body design was identified as ASTM B283 C37700, forging brass. While this material is permitted by ASME B31.1 for use in some applications, its use in boiler external piping is specifically prohibited (see Note

1 of Table A-6, ASME B31.1).

All power boiler owners and equipment suppliers are asked to review the material specifications of valves and other fittings used in power boiler service and to replace immediately any inappropriate ones when they are found.

It is important to note that markings on valves and other fittings may not provide complete information to allow a user to determine whether or not these fittings are suitable for a given

application, such as boiler external piping. Also, material identification may not be on a fitting or in the manufacturer's sales brochure of the fitting. It is the user's responsibility to ensure that any fitting he or she is using is suitable for the intended purpose and complies with the applicable Code adopted under the Uniform Boiler and Pressure Vessel Act and the N.C. Administrative Code, Title 13, Chapter 13. Where full information is not immediately available, the user should contact the supplier or the manufacturer to get the necessary details.

## **Triangle Tube Recalls to Repair Gas Boilers Due to Risk of Carbon Monoxide Hazard**

*One Death Reported; In-Home Remedy May Be Delayed Due To COVID-19 Restrictions Fast Track Recall with Health Canada*

*This article does not propose to list all current recall notices, care should be taken to research your equipment for any potential recalls.*

**Name of product:** Prestige Solo & Prestige Excellence condensing gas boilers  
**Hazard:** Flue gas can escape from the gas

and click on "RECALL INFORMATION" for more information.

### **Recall Details**

#### **In Conjunction With:**

**Description:** This recall involves 22 models of the Prestige Solo & Prestige Excellence condensing gas boilers manufactured between November 2011 and October 2019, for residential and light commercial use. These wall-hung condensing gas

boilers are housed in a white metal box. The name "Prestige" is printed on the white front panel and on the outside of the cardboard packing box. You can identify whether you have an affected boiler using the firm's "how to" document at [www.triangletube.com](http://www.triangletube.com).

The boilers included in this recall have the following serial number ranges:



**Recalled Prestige PT Series Gas Boiler (Manufactured Nov. 2011 – Dec. 2015)**



**Recalled Prestige PT Series Gas Boiler (Manufactured Nov. 2011 – Dec. 2015)**

boilers if the vent adapter is not securely reattached to the boiler after maintenance or repair, posing a carbon monoxide poisoning hazard to consumers.

**Remedy:** Repair

**Recall date:** July 28, 2020

**Units:** About 63,000

**Consumer Contact:** Triangle Tube toll-free at 877-574-5036 from 8 a.m. to 5 p.m. ET Monday through Friday, or online at [www.triangletube.com](http://www.triangletube.com)

Product Name	Models by Prefix	Serial Number Range located on Boiler Rating Label	Date of Manufacture
Prestige Solo-Prefix: PT	PT 60, PT110, PT110LP, PT175, PT250, PT399, PT399HP	PT0000110 to PT0053776 or PTA002645 through PTA09800 or AE1100 through AE1239	November 2011 through December 2015
Prestige Solo-Prefix: PA	PA80, PA110, PA155, PA175, PA250, PA299, PA399	PA044928 through PA139939	January 2016 through March 2019
Prestige Excellence-Prefix: PTE or PTEA	PTE 110	PTE0000568 through 053690 and PTEA002889 through PTEA003086	November 2011 through December 2015
Prestige Excellence-Prefix: PEA or PEB2	PEA 110 PEB2 110	PEA 078169 through PEA143958 and PEB2157356 through PEB2159813	January 2016 through March 2019
Prestige Solo- Prefix: PB	PB80, PB110, PB155, PB175, PB250, PB299, PB399	PB2152110 through PB2163489	April 2019 through October 2019

**Remedy:** Consumers with recalled boilers should immediately contact Triangle Tube to schedule a free repair. Consumers who continue using the boilers while awaiting repair should have working carbon monoxide alarms on each level of their homes and outside sleeping areas. Consumers who do not have a carbon monoxide alarm can contact Triangle Tube to have one shipped to them free of charge.

**Incidents/Injuries:** The firm has received one report of a death from carbon monoxide poisoning associated with the recalled boilers in 2016 following a repair where the adapter was not

reattached. The firm has also received two other reports of vent tube adapter separation from the recalled boilers.

**Sold At:** Wholesale distributors and installed by independent contractors nationwide from November 2011 through July 2020 for between \$3,400 and \$9,700.

**Manufacturer(s):** Burnsen SA, of Belgium

**Importer(s):** Triangle Tube/III Co., Inc., of West Deptford, N.J.

**Manufactured In:** Belgium

**Recall number:** 20-157

# Lochinvar Recalls Condensing Residential Boilers Due to Risk of Carbon Monoxide Poisoning



*Recalled Lochinvar boiler*



and dislodge during use and allow the boiler to emit carbon monoxide, posing a risk of carbon monoxide poisoning.

**Remedy:**  
Repair

**Recall date:**

June 18, 2020

**Units:** About 34,300 (In addition, about 3,642 units were sold in Canada)

**Consumer Contact:** Lochinvar toll-free at 833-232-9706 from 8 a.m. to 8 p.m. ET Monday through Friday. Check for the recalled boilers' serial number at: [www.waterheaterrecall.com](http://www.waterheaterrecall.com), and select the look-up feature for the flue grommet recall. Consumers with Lochinvar-branded boilers can find a qualified service technician by visiting: <http://green.lochinvar.com/support/contractorlocator.aspx>. Consumers with A. O. Smith or State Proline-branded boilers should contact their installer. If consumers do not know their installer, contact Lochinvar toll free at: 833-232-9706.

**Recall Details**

**In Conjunction With:**

**Description:** This recall includes residential condensing boilers, combi boilers and packaged systems sold after August 2016. The following model numbers are included in the recall. They were sold under the Lochinvar, A. O. Smith, and State Proline brand names and have serial numbers within the range of 103475818 through 115078306. The model number and serial number can be found on the data plate on the product located on the unit's rating plate, which is located either on the outer jacket of the unit, or on the underside of the removable front jacket plate. The brand name is printed on the front of each unit.

MODEL NO. NK0500N (NO. DE MODELO)	LOCHINVAR, LLC 300 MADRIDX SIMPSON PARKWAY LEBANON, TN 37060		
SERIAL NO. (NO. DE SERIA)	1911 114002789		
FACTORY EQUIPPED FOR NATURAL GAS			
ALTITUDE	0 - 2,500	FT	
INPUT RATING	150,000	BTU/HR	
MINIMUM INPUT RATING	15,000	BTU/HR	
HEATING CAPACITY	139,000.0	BTU/HR	
MAX DHW WP	150	PSI	
MAX INLET GAS PRESSURE		NATURAL 14.0 PROPANE 14.0	IN WC
MIN INLET GAS PRESSURE		4.0 8.0	IN WC
MANFOLD PRESSURE		-0.01 0.00	IN WC
CRN: 9100.7CL	CONTROL NO.: M9		
THIS LABEL IS A DUPLICATE. ASME NAMEPLATE IS ATTACHED TO THE HEAT EXCHANGER			
ASME 337438		CERTIFIED BY AIC	
MAWP WATER		50	PSI
MAX WATER TEMP		210	°F
HEATING SURFACE		11.40	ft <sup>2</sup>
MIN RV CAPACITY		150.00	LB/HR

**Hazard:** The boiler's flue grommet can deteriorate

**Recalled Model Numbers:**

<b>ACB</b>	KHB085N	NKB110L	SCB150H-P
ACB110H-N	KHB085N-8647	NKB110L-8647	SCB150S-N
ACB110H-P	KHB110L	NKB110N	SCB150-P
ACB110S-N	KHB110N	NKB110N-8647	SCB199H-N
ACB110S-P	KHB110N-8647	NKB150L	SCB199H-P
ACB150H-N	KHB155L	NKB150L-8647	SCB199S-N
ACB150H-P	KHB155N	NKB150N	SCB199S-P
ACB150S-N	KHB155N-8647	NKB150N-8647	<b>WHB</b>
ACB150S-P	KHB199L	NKB199L	WHB055L
ACB199H-N	KHB199N	NKB199L-8647	WHB055N
ACB199H-P	KHB199N-0030-001	NKB199N	WHB055N-8647
ACB199S-N	KHB199N-8018	NKB199N-8647	WHB085L
ACB199S-P	KHB199N-8647	<b>NKC</b>	WHB085N
<b>APN</b>	KHB285L	NKC110L	WHB085N-8647
APN285	KHB285L-8647	NKC110L-8647	WHB110L
<b>EPB</b>	KHB285N	NKC110N	WHB110N
EPB080N	KHB285N-001	NKC110N-8647	WHB110N-8647
EPB110N	KHB285N-002	NKC150L	WHB155L
EPB110N-CAN	KHB285N-8018	NKC150L-8647	WHB155N
EPB150N	KHB285N-8647	NKC150N	WHB155N-8018
EPB199N	KHB285N-8710	NKC150N-8647	WHB155N-8647
<b>EPC</b>	KHB285N-M7	NKC199L	WHB199L
EPC110N	<b>NKB</b>	NKC199L-8647	WHB199N
EPC110N-CAN	NKB050L	NKC199N	WHB199N-8018
EPC150N	NKB050L-8647	NKC199N-8647	WHB199N-8647
EPC199N	NKB050N	<b>SCB</b>	WHB285L
<b>KHB</b>	NKB050N-8647	SCB110H-N	WHB285L-8647
KHB055L	NKB080L	SCB110H-P	WHB285N
KHB055N	NKB080L-8647	SCB110S-N	WHB285N-0119-001
KHB055N-8647	NKB080N	SCB110S-P	WHB285N-8647
KHB085L	NKB080N-8647	SCB150H-N	WHB285N-M7

**Remedy:** Consumers with the recalled boilers should immediately contact the installer or a qualified technician to schedule a free repair. Consumers who continue use of the boilers while awaiting repair should have working carbon monoxide alarms outside of sleeping areas and on every level of the home.

**Incidents/Injuries:** The firm has received 7 reports of boiler's flue grommets deteriorating, including one report of two nonfatal injuries involving carbon

monoxide poisoning, and two reports of carbon monoxide emission not involving an injury.

**Sold At:** Independent contractors, plumbers, and plumbing supply vendors and distributors, from August 2016 through June 2020, for between \$8,000 and \$25,000, including installation.

**Manufacturer(s):** Lochinvar LLC, of Lebanon, Tenn.

**Manufactured In:** United States

**Recall number:** 20-141

# Bosch Thermotechnology Recalls Buderus Boilers Due to Carbon Monoxide Poisoning Hazard



Recalled Buderus GB125-35 oil condensing boiler

@us.bosch.com; or online at <https://www.bosch-thermotechnology.us/us/en/residential/home/> and click on the “Knowledge” tab, then click on “Product Approvals, Certifications & Regulatory Info” for more information.

## Recall Details

**Description:** This recall involves Buderus brand GB125-35 oil-condensing boilers distributed by Bosch. The boilers have a blue enclosure, and the GB125-35 model number is located on the data plate near the top right hand side of the boiler. The Buderus brand name is printed on the outside of the boiler’s blue enclosure. Bosch Thermotechnology and the model number are printed on a white label on the blue enclosure.

**Remedy:** Consumers should immediately contact Bosch for a free repair. Consumers who continue to use the boilers while awaiting repair should have a working carbon monoxide alarm installed outside of sleeping areas in the home.

**Incidents/Injuries:** None reported in the U.S.

**Sold At:** Wholesale distributors and installed by independent contractors nationwide from June 2008 through September 2012 for about \$6,000.

**Manufacturer(s):** Bosch Thermotechnik GmbH, of Germany

**Importer(s):** Bosch Thermotechnology Corp., of Watertown, Mass.

**Distributor(s):** Bosch Thermotechnology Corp., of Watertown, Mass.

**Manufactured In:** Germany

**Recall number:** 20-046

**Name of product:** Buderus GB125-35 oil-condensing boilers

**Hazard:** The siphon can become blocked, leading to a delayed ignition that can damage the boiler’s exhaust system, creating a carbon monoxide hazard.

**Remedy:** Repair

**Recall date:** December 20, 2019

**Units:** About 170

**Consumer**

**Contact:** Bosch Thermotechnology at 800-323-1943 from 8 a.m. to 6 p.m. ET Monday through Thursday and Friday from 8

a.m. to 5 p.m. ET, via email at [GB125.35Recall](mailto:GB125.35Recall)



## CPSC, Weil-McLain Company Announces Recall of Boilers

The following product safety recall was voluntarily conducted by the firm in cooperation with the CPSC. Consumers should stop using the product immediately unless otherwise instructed.

**Name of Product:** GV Series Boilers

**Units:** 1,131

**Manufacturer:** Weil-McLain Company, of Michigan City, Ind.

**Hazard:** The blower assembly is not properly sealed. Gas can leak during operation and accumulate. If an ignition source is present, a fire or explosion could occur.

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Incidents/Injuries: No reports of incidents or injuries.

**Description:** Weil-McLain GV water boiler models GV-3, GV-4, GV-5, and GV-6 with a serial number/date code range of CP5075477 to CP5221234 and built from April 1, 2005 through October 31, 2005. Serial numbers and date codes are located on the left side of the jacket, above the boiler rating label.

**Sold At:** Plumbing and heating wholesale companies to independent plumbing heating contractors. Price to consumer (not installed) may range from

about \$2,200 to \$3,200.

**Manufactured In:** U.S.A.

**Remedy:** Weil-McLain repaired all recalled boilers at no cost to consumers.

**Consumer Contact:** Call Weil-McLain at (219) 879-6561 between 8 a.m. to 4 p.m., CT, Monday through Friday, and ask for Consumer Relations, or visit the firm's website at [www.weil-mclain.com](http://www.weil-mclain.com). Information about recall provided by courtesy of: John Griffin, St. Paul Travelers Insurance Company.

**Got an important message for your fellow NABO members?  
Have an announcement that you'd like to share?  
Send your submissions for the *NABO NOW!* newsletter to:  
[James.Marsh@tuvsud.com](mailto:James.Marsh@tuvsud.com)**



[www.nabomembers.com](http://www.nabomembers.com)

## **NABO GRANT PROGRAM**

### **THE PROGRAM**

The National Association of Boiler Owners and Operators (“NABO”) has established a Grant program to provide for and encourage eligible individuals to continue their education to pass the National Board Examination for boiler and pressure vessel inspectors and to become a National Board Commissioned Inspector.

This Grant program is administered by NABO. All awards are granted without regard to race, color, creed, religion, sexual orientation, gender, disability or national origin.

### **ELIGIBILITY**

Applicants to the NABO Grant Program must be either:

- Children of individuals employed by or affiliated with ARISE Boiler Inspection and Insurance Company Risk Retention Group policyholder companies (“ABIIC”);
- Individuals who want to become commissioned boiler inspectors;
- Veterans of the United States Military Services; or
- Individuals with HVAC or Code or Non-Code boiler and pressure vessel manufacturing shop experience as a Welder or Quality Control.
- Must be a citizen of the United States.

### **ELIGIBLE EDUCATIONAL INSTITUTIONS**

An Eligible Educational Institution is any accredited school that has a curriculum to prepare students to pass the National Board Examination to become a National Board Commissioned Inspector. See current National Board requirements here <http://www.nationalboard.org/Index.aspx?pageID=390&ID=483>

### **AWARDS**

Applications will be reviewed against the program criteria by a selection process determined by NABO. Grant recipients will be selected on a competitive basis. If selected as a Grant Recipient, the student will receive an award in an amount of \$10,000 for tuition, books and related fees. Up to two awards will be granted each year. Applicants can reapply for additional awards each year while continuing their education.

### **APPLICATION**

Interested individuals must complete the Application and submit it to:

NABO Grant Program  
c/o ARISE Boiler Inspection & Insurance Co. RRG  
7000 S. Edgerton Road, Suite 100  
Brecksville, OH 44141  
Email: [arise-NABO@tuvsud.com](mailto:arise-NABO@tuvsud.com)

Applicants are responsible for gathering and submitting all necessary information. Applications are evaluated on the information supplied; therefore, answer all questions as completely as possible. Incomplete applications will not be evaluated. All information received is considered confidential and is reviewed only by the NABO Grant Program Selection Committee.

## **SELECTION OF GRANT RECIPIENTS**

Grant Recipients are selected on the basis of academic record, demonstrated leadership and participation in school and community activities, honors, work experience, statement of goals and aspirations, and a personal interview, if elected by the NABO Grant Program Selection Committee. Financial need is not considered.

Selection of Grant Recipients is made by the NABO Grant Program Selection Committee. All Applicants agree to accept the decision as final.

Grant Recipients will be notified as soon as possible after receipt of the completed application. Not all applicants to the program will be selected as Grant Recipients. Students may reapply to the program each year they meet eligibility requirements.

## **PAYMENT OF GRANTS**

All awards will be paid directly to the Eligible Educational Institution. Grant Recipients will be responsible for all income taxes due on any awards.

## **OBLIGATIONS**

Grant Recipients must keep at least a "C" average in all courses in order to keep the award. If the recipient's grades fall below a "C" average in his or her courses, the Grant Recipient shall be required to repay the award to NABO. Grant Recipients must submit a transcript of courses taken and grades received to the NABO Grant Program Selection Committee at the end of each grading period.

## **AMENDMENTS AND TERMINATION OF NABO GRANT PROGRAM**

NABO reserves the right to review the conditions and procedures of the NABO Grant Program and to make any changes at any time, including termination of the NABO Grant Program.

## **ADDITIONAL INFORMATION**

Questions regarding the NABO Grant Program should be addressed to: NABO

NABO Grant Program  
c/o ARISE Boiler Inspection & Insurance Co. RRG  
7000 S. Edgerton Road, Suite 100  
Brecksville, OH 44141  
Email: [arise-NABO@tuvsud.com](mailto:arise-NABO@tuvsud.com)



Name \_\_\_\_\_

1. List the secondary school from which you graduated, and all higher education institutions attended.

School	Location	Dates Attended
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2. List awards, scholarships, or special recognitions you have received.

3. List college and high school activities

4. List work experience

