





**Submittal Item**

**Project** [IPS-III-1015] - 015 - Thomas D. Gregg  
Elementary School

**View Date** 2/23/2010

Enginnuity Management & Consulting Corp.  
Ste 230  
6214 Morenci Trail  
Indianapolis, IN 46268  
Phone: 317-297-5601  
Fax: 317-423-5460

**Submittal Item No.**  
00453

**General Information**

<b>Item No.</b>	00453	<b>Revision</b>	0
<b>Package No. Rev.</b>	<u>223400.0</u>		
<b>Description</b>	Product Data - Compression Tank		
<b>CSI Code</b>	22 34 00 - Fuel-Fired Domestic Water Heaters	<b>Submitting Company</b>	MacDougall Pierce Construction, Inc.
<b>Reference No.</b>		<b>Copies Required</b>	1
<b>Status</b>	Returned to CM	<b>Item Type</b>	Product Data
<b>Responsible Team Member</b>	Sahara Williams (Enginnuity Management & Consulting Corp.)		
<b>Item Notes</b>			
<b>Primary Response</b>			
<b>Submission Notes</b>			
<b>Review Notes</b>			

**Dates**

<b>Material Required on Site</b>	<b>Required Lead Time (days)</b>
<b>Approved Submittal Required By</b>	<b>Required Review Time (days)</b>
<b>Submission Due</b>	

**Manufacturer**


**SUBMITTAL COVER SHEET**

Project: **IPS 15- Thomas D. Gregg Elementary School Mechanical/Plumbing Work**  
**IPS-CIP Phase III GC: MacDougall Pierce Construction**

Date: 02/12/10  
 Project No: 09-0163M

General Contractor: MacDougall Pierce Construction 12720 Ford Drive Indianapolis, IN 46038 317-596-6371 Brent Houston	Architect/Engineer: Durkin & Villalta Partners Engineering 8440 Woodfield Crsg. Blvd., Ste. 175 Indianapolis, IN 46240 317-472-3883 Tom Durkin	Mechanical Contractor: Ellis Mechanical & Electrical 2929 Bluff Road Indianapolis, IN 46225 317-786-2957 Tim Brabender	Subcontractor/Supplier: Plumbers Supply 3849 East Raymond St. Indianapolis In. 46203 317-783-2981 Mike Kavanaugh
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<u>Specification Division:</u> 223400	<u>Item Description:</u> Expansion tank	<u>Manufacturer(s):</u> Amtrol	<u>LEED Information:</u>
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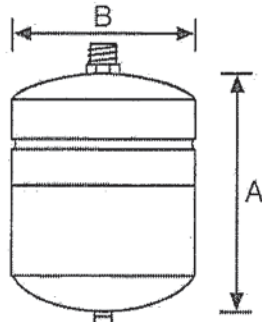
Owner/Owner Representative Stamp	Architect/Engineer Stamp	Contractor Stamp	Subcontractor/Supplier Stamp
<div style="border: 1px solid red; padding: 5px; color: red;">                     Reviewed by WJB                      of Enigunity for                      CQM Team on                      02/23/2010                 </div>		REVIEWED & SUBMITTED TO DESIGN ARCHITECT/ENGINEER AND/OR OWNER/OWNER'S REPRESENTATIVE FOR APPROVAL ON <u>2/12/10</u>   X Signed	

Comments

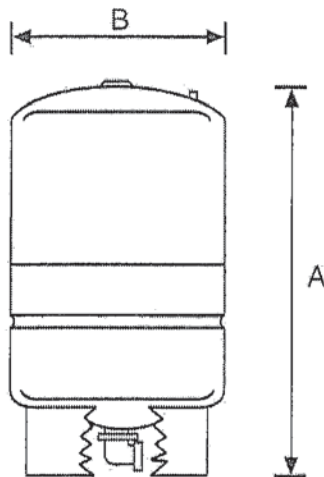
# THERM-X-TROL®

## Thermal Expansion Absorbers, ST-Series (Non-ASME)

150 PSIG Working Pressure



ST-5, ST-12



ST-25V through ST-210V



### In-Line Models

Model No.	Tank Vol.		Max. Accept. Factor	A Height		B Diameter		Sys. Conn. NPTM	Ship Wt.	
	Lit.	Gal.		cm	ins.	cm	ins.		kg	lbs.
ST-5	8	2.0	0.45	321	12 $\frac{3}{8}$	203	8	$\frac{3}{4}$	2.3	5
ST-12	17	4.4	0.73	381	15	279	11	$\frac{3}{4}$	4.0	9

### Stand Models

Model No.	Tank Vol.		Max. Accept. Factor	A Height		B Diameter		Sys. Conn. NPTF	Ship Wt.	
	Lit.	Gal.		cm	ins.	cm	ins.		kg	lbs.
ST-25V	39	10.3	1.00	489	19 $\frac{1}{4}$	391	15 $\frac{3}{8}$	1	10.5	23
ST-30V	53	14.0	0.81	605	23 $\frac{7}{8}$	391	15 $\frac{3}{8}$	1	11.4	25
ST-42V	76	20.0	0.57	802	31 $\frac{1}{8}$	391	15 $\frac{3}{8}$	1	15.0	33
ST-60V	129	34.0	1.00	913	29 $\frac{5}{8}$	559	22	1 $\frac{1}{4}$	28.0	61
ST-80V	167	44.0	0.77	913	36	559	22	1 $\frac{1}{4}$	31.0	69
ST-180V	235	62.0	0.55	1186	46 $\frac{3}{4}$	559	22	1 $\frac{1}{4}$	41.0	92
ST-210V	326	86.0	0.54	1199	47 $\frac{1}{4}$	660	26	1 $\frac{1}{4}$	56.0	123

### Maximum Operating Conditions

Operating Temperature	200°F (93°C)
Working Pressure	150 PSIG (10.5 kg/cm <sup>2</sup> )

### Specifications

Description	Standard Construction
Standard Factory Pre-charge	40 PSIG (2.8 kg/cm <sup>2</sup> )
System Connection	Brass (ST5,12) Stainless Steel (Stand Models)
Diaphragm	Butyl/EPDM
Liner Material	Polypropylene.

All dimensions and weights are approximate.

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Location \_\_\_\_\_

Contractor P.O. No. \_\_\_\_\_

Sales Representative \_\_\_\_\_

Model No. Ordered \_\_\_\_\_

Engineer \_\_\_\_\_