

BioHeat USA
4 Britton Lane
Lyme, NH 03768

BioHeat USA Piping Layout Concept Diagram

Wood Boiler used as an **ONLY BOILER**
No Thermal Storage

Drawn by: TSP

Date
8-11-2008

DWG NO
Solo/Excel 1

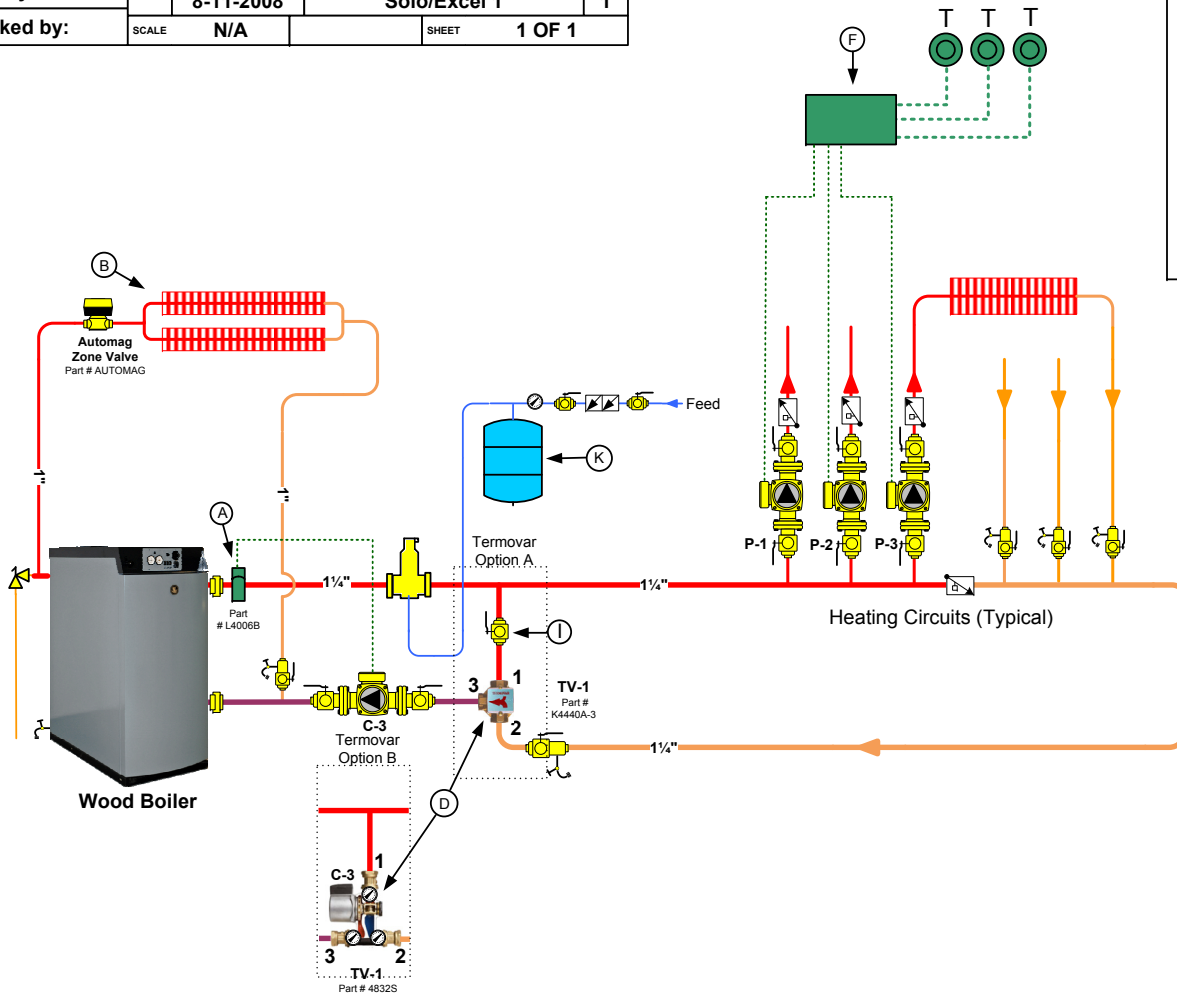
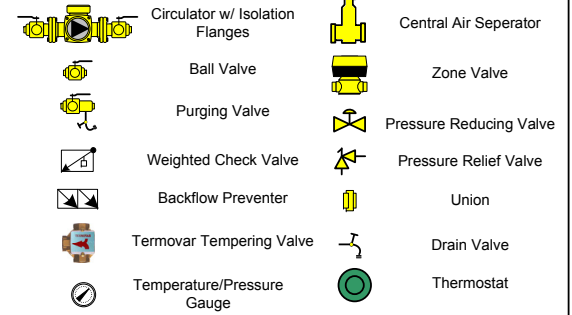
REV
1

Checked by:

SCALE
N/A

SHEET
1 OF 1

Symbol Key



NOTES:

- (A) Aquastat-Honeywell L4006B or Equivalent
Part # L4006B (Not used with the Excel or Froling FHG)
- (B) Emergency Gravity Flow Overheat Loop
Needs to be 10% of Wood Boiler Output. Automag
needs to be installed in the **horizontal** position.
- (D) Termovar Mixing Valve (2 Options Available)
- (F) Circulator Switch Relay-Typical Controller
- (I) Balancing Valve Required. (Start with Valve Closed
halfway, i.e., at 45 degrees)
- (K) Amtrol 60 or Equivalent Expansion Tank is Suitable for
most Solo Plus Installations up to 86 gallons

This is only a **concept** drawing. Final design, installation and code compliance details are the responsibility of the designer/installer of the system.

Tarm USA, Inc
5 Main Street
Lyme, NH 03768

Tarm Piping Layout Concept Diagram

**Single Boiler Installation With Circulators
and Heat Storage System**

Drawn by: TSP

Date
1-31-2008

DWG NO
E

REV
4

Checked by:

SCALE
N/A

SHEET
1 OF 1














Notes:

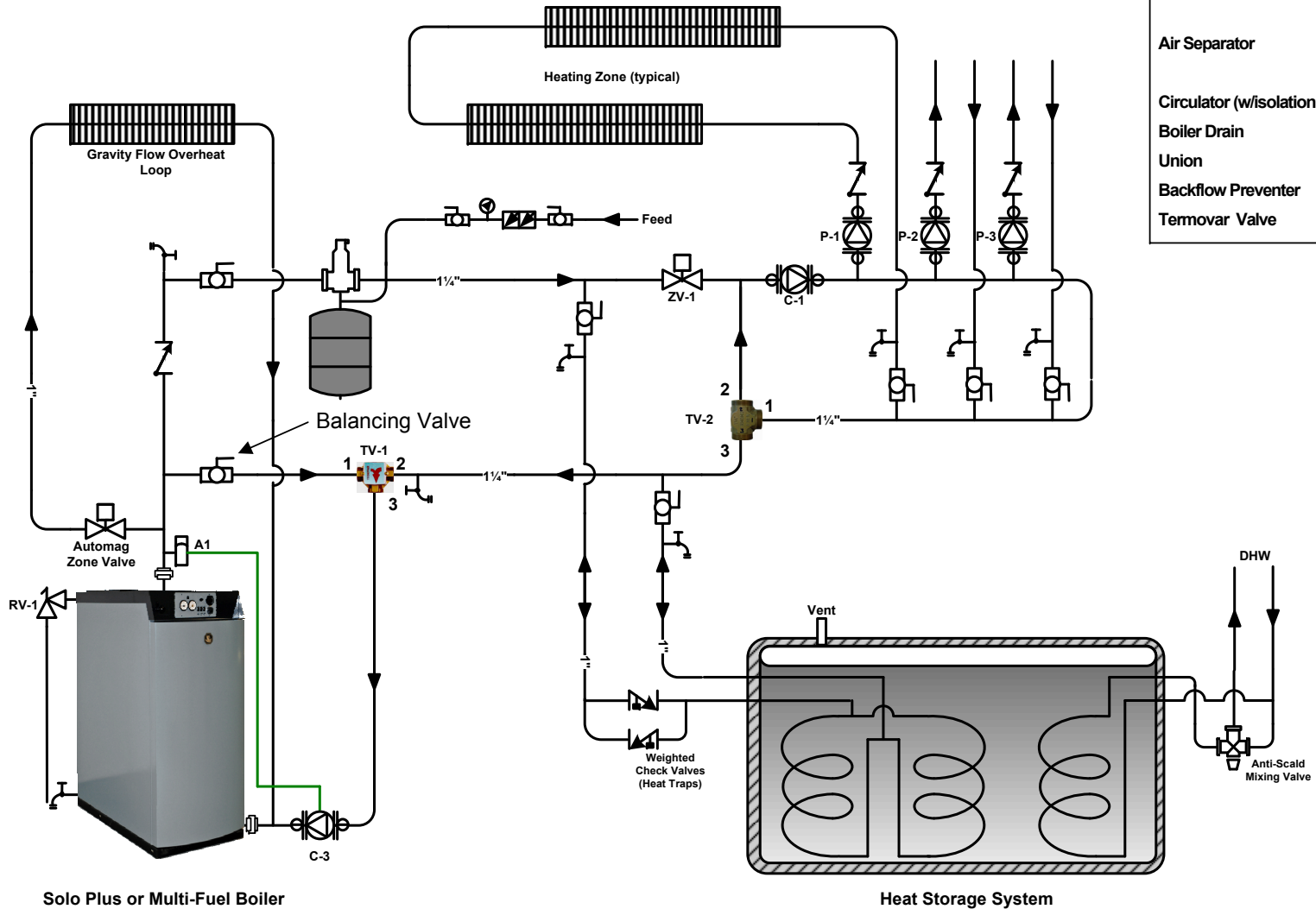
TV-1 Valve-Termovar 4440 Thermostatic Valve or Equivalent.
TV-2 Valve-Termovar 6440 Diverting Valve or Equivalent.
A1 Aquastat- Honeywell L4006B or Equivalent (Solo Plus Only).

C-3 and C-1 Circulator Sizing (multi-speed circulator recommended):

2-120' coils-Taco 007 or Equivalent.
2-180' coils-Taco 010 or Equivalent.
3-180' coils-Taco 010 or Equivalent.

Symbol Key

- Ball Valve 
- Check Valve 
- Weighted Check Valve 
- Pressure Relief Valve 
- Motorized Zone Valve 
- Pressure Reducing Valve 
- Differential Pressure Bypass 
- Air Separator 
- Circulator (w/isolation flanges) 
- Boiler Drain 
- Union 
- Backflow Preventer 
- Termovar Valve 



Solo Plus or Multi-Fuel Boiler

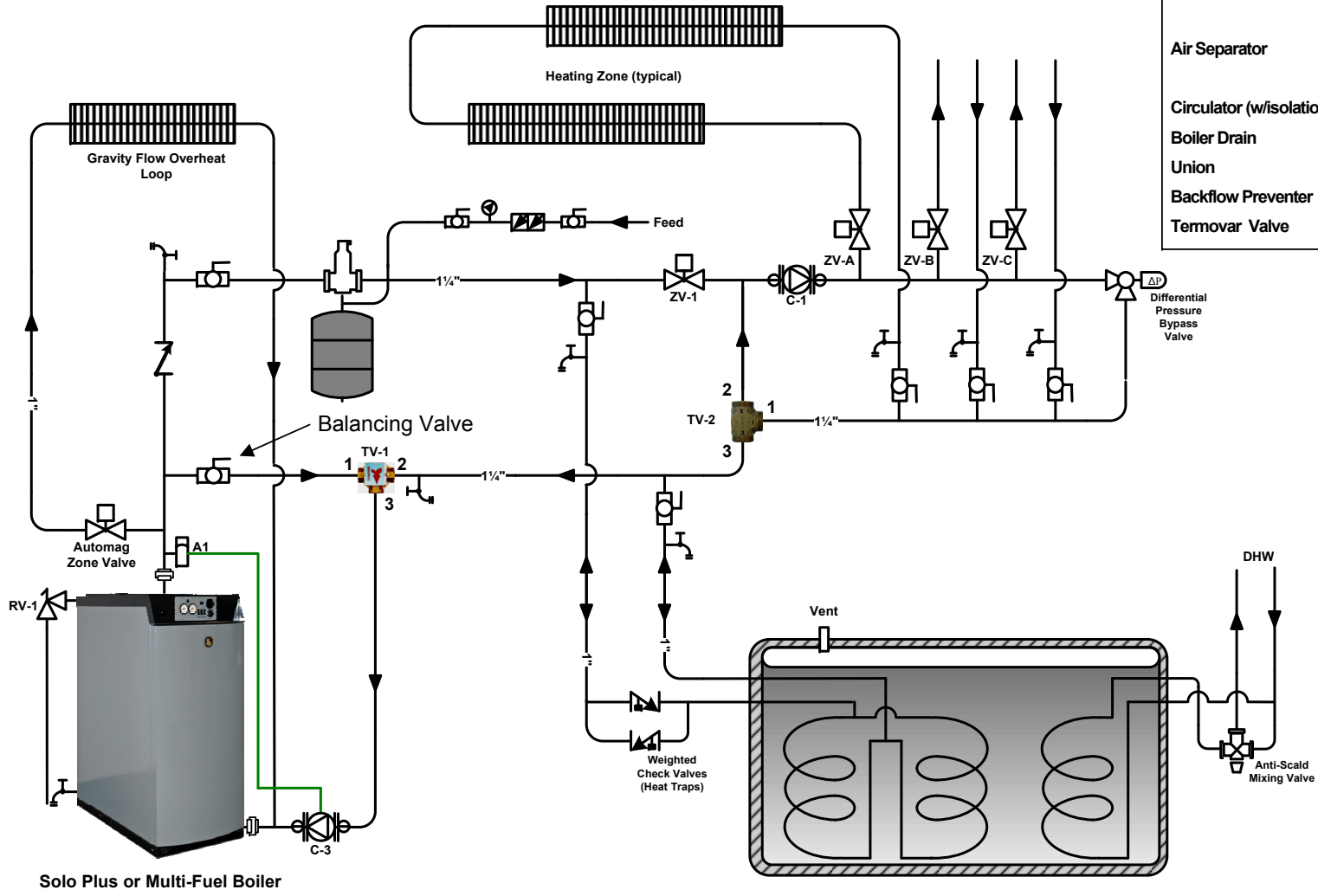
Heat Storage System

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Tarm USA, Inc 5 Main Street Lyme, NH 03768	Tarm Piping Layout Concept Diagram		
	Single Boiler Installation With Zone Valves and Heat Storage System		
Drawn by: TSP	Date 1-28-2008	DWG NO D	REV 3
Checked by:	SCALE N/A	SHEET	1 OF 1

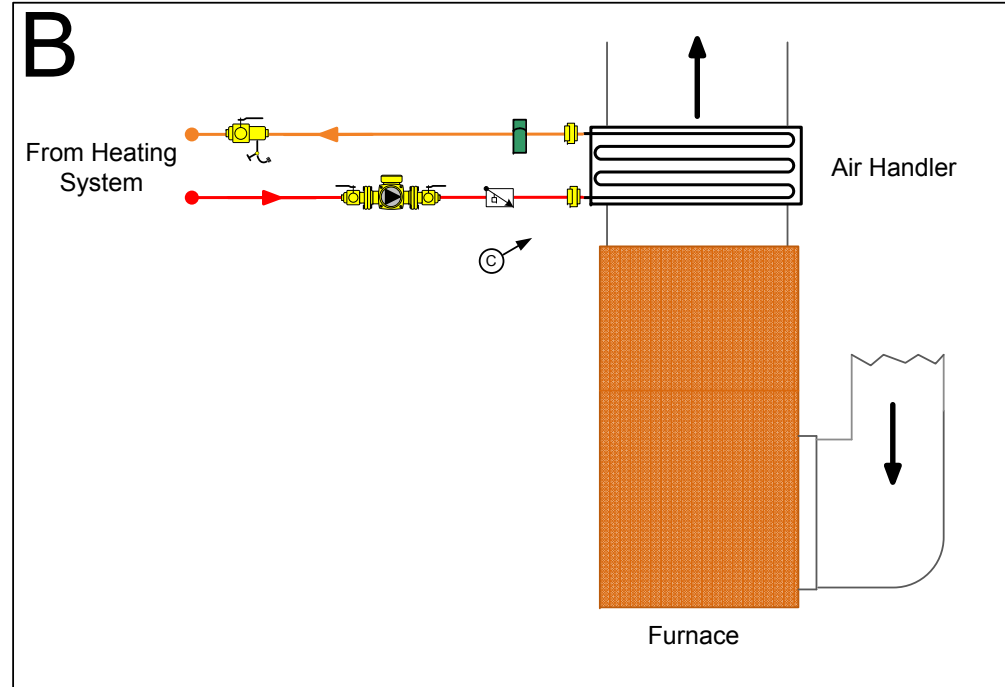
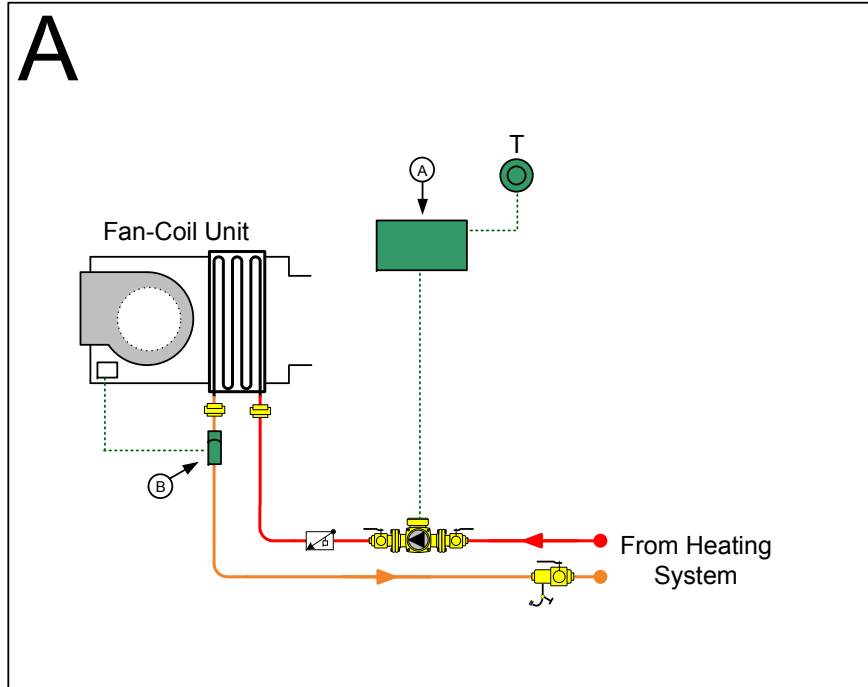
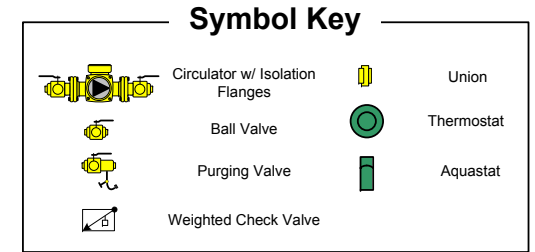
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Symbol Key	
Ball Valve	
Check Valve	
Weighted Check Valve	
Pressure Relief Valve	
Motorized Zone Valve	
Pressure Reducing Valve	
Differential Pressure Bypass	
Air Separator	
Circulator (w/isolation flanges)	
Boiler Drain	
Union	
Backflow Preventer	
Termovar Valve	



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BioHeat USA 4 Britton Lane Lyme, NH 03768	BioHeat USA Piping Layout Concept Diagram		
	Fan-Coil/Air Handler Supplemental Plumbing Diagram		
Drawn by: TSP	Date 9-25-2008	DWG NO FanCoil	REV 1
Checked by:	SCALE N/A	SHEET 1 OF 1	



NOTES:

- (A) Circulator Switch Relay-Typical Controller
- (B) An aquastat (Honeywell L6006 or equivalent) can be used to switch on the Fan Coil's Fan. Typically set to 140 °F (60 °C).
- (C) Example B Notes: Due to the many variables of furnace manufacturers, heating systems, and air handlers, control wiring and set-up needs to be installed by a qualified HVAC professional.

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