

18 Primary/Secondary System Piping *(continued)*

Figure 51 Piping to diaphragm (or bladder) expansion tank

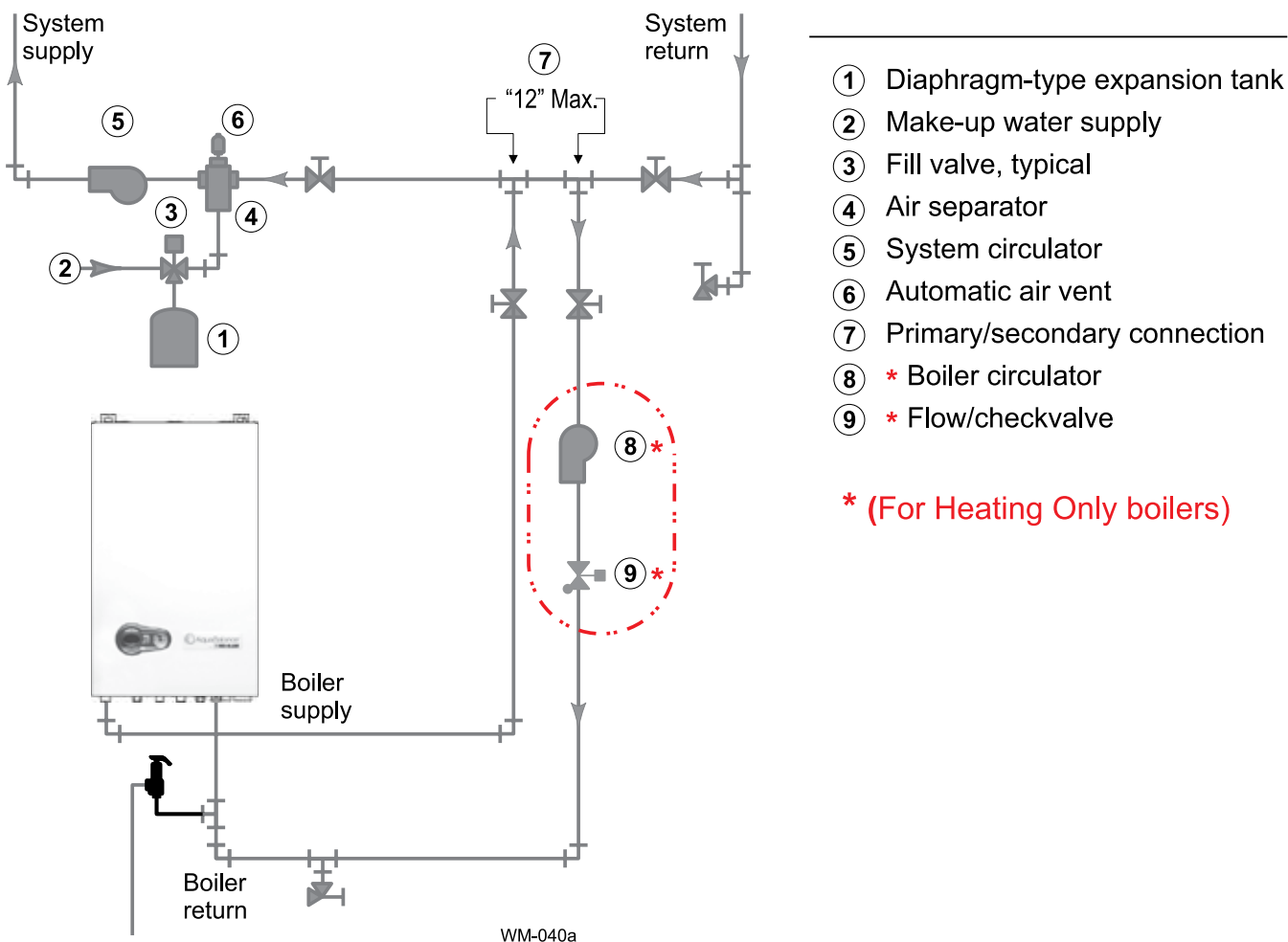


Figure 52 Pressure drop through AquaBalance® 80/120/155 heat exchanger (graphs and table)

Boiler Model	BOILER dT (°F)	(GPM) @ 92% Eff.	Boiler Head Loss (ft. w.c.)	Piping Est. Head Loss - Ft. (Typical Near Boiler)		Total Loss - Ft. (Boiler + Near Boiler Piping)		Recommended Circulators		
				3/4" Pipe	1" Pipe	3/4" Pipe	1" Pipe	3/4" Pipe	1" Pipe	1-1/4" Pipe
AB-80 HEAT ONLY	20	7.4	7.8	12.5	3.0	20.3	10.8	A	B,C,D	---
	30	4.9	4.0	6.0	1.5	10.0	5.5	B,C,D,E	B,C,D,E	
	40	3.7	2.7	3.5	0.8	6.2	3.5	B,C,D,E	B,C,D,E	
AB-120 HEAT ONLY	20	11.0	14.4	Not Recommended	6.0	Not Recommended	20.4	Not Recommended	A,F	---
	30	7.3	7.5		3.0		10.5		B,C,D	
	40	5.5	4.6		1.8		6.4		B,C,D,E	
AB-155 HEAT ONLY	20	14.3	35.6	Recommended	9.6	Recommended	45.8	Recommended	---	---
	30	9.5	16.4		4.6		21.0		F	F
	40	7.1	9.2		2.8		12.0		A,B,D	A,B,D

Notes:

- Operating point with current Grundfos pump inside the boiler.
- Combi pump included in the boiler is sized properly for boiler loop.

Circulator Legend:

- A - Taco 0014
 B - Taco 0015
 C - Grundfos UPS 15-58
 D - B&G NRF 25
 E - Taco 007
 F - Taco 0011