



EXTROL[®]

Hydronic Expansion Tanks

THE ONE THAT STARTED IT ALL[™]





EXTROL®

Extrol expansion tanks accept expanded fluid in closed-loop hydronic systems to control pressure buildup, improve comfort and help reduce energy costs. Nearly seven decades after inventing the first diaphragm expansion tank, Amtrol's lineup now includes specialty models engineered for modern, high-efficiency systems. None of it would have been possible without Extrol – The One That Started It All™.

Automatic Air Vent
with quick change fitting

Amtrol Air Purger
separates air from water

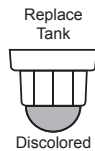
Strong, deep-drawn
steel construction

Water tight reservoir
for expanded water

Thick, heavy duty Butyl/EPDM
diaphragm for long service life

Sealed air cushion; factory
pre-charged and 100% tested

Factory precharge: 12 PSIG
Max. working pressure: 100 PSIG
Max. operating temperature: 240° F



InSight™ Indicator Cap

- Patent-pending sight glass changes color if tank needs replacing.
- Alerts user to a problem before damage can occur.



Models and Specifications



Extrol® In-Line Models

- Suitable for expansion control in most residential closed-loop boiler systems.
- Patent-pending InSight™ indicator cap provides visual check of tank condition.
- In-line mounting adds convenience and space savings.

EX Series Specifications

Model Number	Tank Volume (Gallons)	Max. Accept. Volume (Gallons)	Diameter (Inches)	Height (Inches)	System Connection (NPTM)	Shipping Weight (lbs.)
EX-15	2.0	1.0	8	13	½	5
EX-30	4.4	2.5	11	15	½	9
EX-60	7.4	2.5	11	23	½	14
EX-90	14.0	11.3	15	21	½	23

Maximum operating temperature: 240° F. Maximum working pressure: 100 PSIG.
Factory precharge: 12 PSIG.



- Combination Packages include Air Purger and Automatic Float Vent.

EX Combination Packages

Model Number	EXTROL Model	Air Purger Model	Air Vent Model	Purger Connection (NPTF)	Shipping Weight (lbs.)
EX-1500-100	EX-15	443	700-C	1	10
EX-1500-125	EX-15	444	700-C	1¼	10
EX-3000-100	EX-30	443	700-C	1	14
EX-3000-125	EX-30	444	700-C	1¼	14

Maximum operating temperature: 240° F. Maximum working pressure: 100 PSIG.
Factory precharge: 12 PSIG



Extrol Vertical Models

- For use in large residential and light commercial applications.
- Floor-standing with rugged steel base.
- Additional capacity to handle larger boiler systems.

SX Series Specifications

Model Number	Tank Volume (Gallons)	Max. Accept. Volume (Gallons)	Diameter (Inches)	Height (Inches)	System Connection (NPTF)	Shipping Weight (lbs.)
SX-30V	14	11.3	15	24	1	25
SX-40V	20	11.3	15	32	1	33
SX-60V	32	11.3	15	48	1	43
SX-90V	44	34.0	22	36	1¼	69
SX-110V	62	34.0	22	47	1¼	92
SX-130V	81	34.0	22	56	1¼	103
SX-160V	86	46.0	26	47	1¼	123

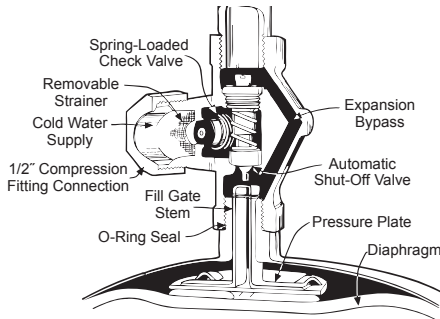
Maximum operating temperature: 240° F. Maximum working pressure: 100 PSIG.
Factory precharge: 12 PSIG.

Specialty Models



Fill-Trol® System

- Eliminates the need for a separate, automatic fill valve.
- Tank pressure controls system fill.
- Fully adjustable up to a maximum working pressure of 100 PSIG.



Fill-Trol® Specifications

Model Number	Tank Volume (Gallons)	Max. Accept. Volume (Gallons)	Diameter (Inches)	Height (Inches)	System Connection (NPTF)	Shipping Weight (lbs.)
FT-109	2.0	1.0	8	15	½	6
FT-110	4.4	2.5	11	17	½	10
FT-111	7.4	2.5	11	25	½	15
FT-112	14.0	11.3	15	23	½	24

*Note: A standard Extrol tank is not interchangeable with a Fill-Trol tank.
Cold water supply: 1/2 compression.
Maximum operating temperature: 240° F. Maximum working pressure: 100 PSIG.
Factory precharge: 12 PSIG.*

FT Combination Packages

Model Number	System Connections (NPTF)	Fill-Trol Model	Air Purger Model	Air Vent Model	Shipping Weight (lbs.)
FT-109-100	1	109	443	700-C	10
FT-109-125	1¼	109	444	700-C	10
FT-110-100	1	110	443	700-C	14
FT-110-125	1¼	110	444	700-C	14
FT-111-125	1¼	111	444	700-C	18



Radiant Extrol®

- For low temperature systems.
- Plastic liner is compatible with barrier and non-barrier tubing.
- Suitable for use in glycol applications.
- Stainless steel connection for corrosion resistance.



Radiant Extrol® Specifications

Model Number	Tank Volume (Gallons)	Max. Accept. Volume (Gallons)	Diameter (Inches)	Height (Inches)	System Connection	Shipping Weight (lbs.)
RX-15	2.0	0.9	8	13	½ NPTM	5
RX-30	4.4	3.2	11	16	½ NPTM	9
RX-60	10.3	2.5	15	19	¾ NPTF	23

*Stainless steel system connection.
Maximum operating temperature: 200° F. Maximum working pressure: 100 PSIG.
Factory precharge: 12 PSIG.*



Solar Extrol®

- For high-efficiency solar systems.
- Suitable for use in glycol applications.



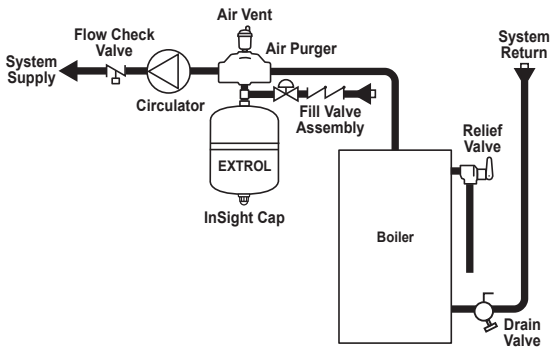
Solar Extrol® Specifications

Model Number	Tank Volume (Gallons)	Max. Accept. Volume (Gallons)	Diameter (Inches)	Height (Inches)	System Connection (NPTM)	Shipping Weight (lbs.)
SE-15	2.0	1.0	8	13	½	5
SE-30	4.4	2.5	11	16	½	9
SE-60	7.4	2.5	11	23	½	14

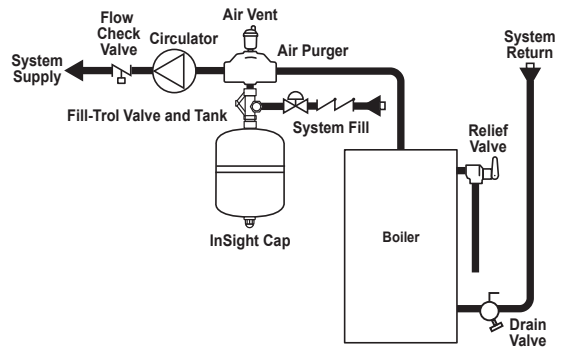
*Maximum operating temperature: 250° F intermittent; 225° F continuous.
Maximum working pressure: 150 PSIG.
Factory precharge: 25 PSIG.*

Typical Installations

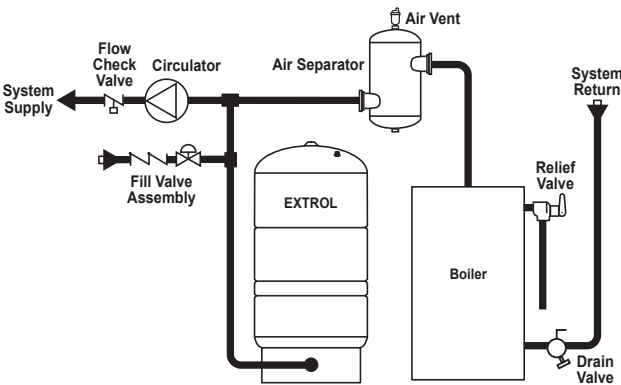
Extrol® EX Models



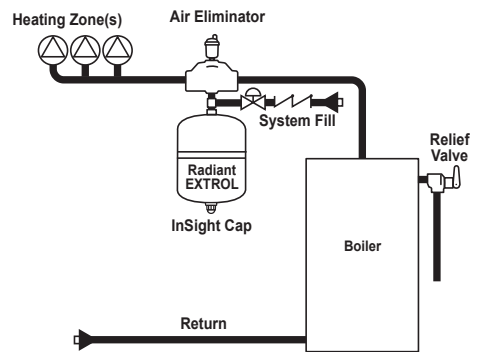
Fill-Trol® FT Models



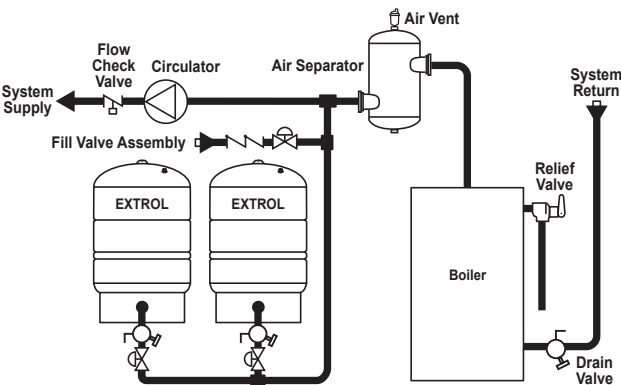
Extrol® SX Models



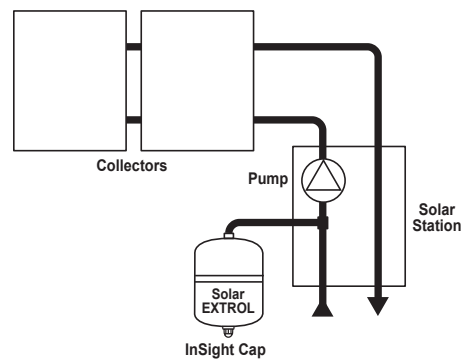
Radiant Extrol® RX Models



Piping Multiple SX Models



Solar Extrol® SE Models





Extrol® Sizing

Extrol EX Series Sizing

Boiler	Type of Radiation			
	Finned Baseboard	Convectors or Unit Heaters	Radiators Cast Iron	Baseboard Cast Iron
25	EX-15	EX-15	EX-15	EX-15
50	EX-15	EX-15	EX-30	EX-30
75	EX-30	EX-30	EX-30	EX-60
100	EX-30	EX-30	EX-60	EX-60
125	EX-30	EX-60	EX-60	EX-90
150	EX-30	EX-60	EX-90	EX-90
175	EX-60	EX-60	See SX Series	
200	EX-60	EX-60		
250	EX-60	EX-90		
300	EX-90			

Extrol SX Series Sizing

Boiler	Type of Radiation and Piping System			
	Finned Tube Baseboard or Radiant Panels	Convectors or Unit Heaters	Cast Iron Radiators One Pipe System	Cast Iron Radiators Series-Loop
200	SX-30V	SX-30V	SX-30V	SX-30V
250	SX-30V	SX-30V	SX-30V	SX-40V
300	SX-30V	SX-30V	SX-40V	SX-40V
350	SX-30V	SX-30V	SX-40V	SX-60V
400	SX-30V	SX-40V	SX-60V	SX-60V
450	SX-40V	SX-40V	SX-60V	SX-90V
500	SX-40V	SX-40V	SX-60V	SX-90V
550	SX-40V	SX-60V	SX-60V	SX-90V
600	SX-40V	SX-60V	SX-90V	SX-90V
650	SX-60V	SX-60V	SX-90V	SX-90V
700	SX-60V	SX-60V	SX-90V	SX-90V
750	SX-60V	SX-60V	SX-90V	SX-110V
800	SX-60V	SX-90V	SX-90V	SX-110V
850	SX-60V	SX-90V	SX-90V	SX-110V
900	SX-60V	SX-90V	SX-110V	SX-110V
950	SX-90V	SX-90V	SX-110V	SX-110V
1,000	SX-90V	SX-90V	SX-110V	SX-110V
1,100	SX-90V	SX-90V	SX-110V	SX-130V
1,200	SX-90V	SX-90V	SX-110V	SX-130V
1,300	SX-90V	SX-110V	SX-130V	SX-160V
1,400	SX-110V	SX-130V	SX-160V	SX-160V
1,500	SX-110V	SX-130V	SX-160V	(2)SX-110V

Sizing based on: 12 PSIG fill; 30 PSIG relief Valve; 200° F average temperature.
For sizing with fluids other than water, visit amtrol.com, download the AMTROL App or consult AMTROL Technical Support.

Radiant Extrol® Sizing

Feet of Tubing	Nominal Pex Tubing Size				
	3/8"	1/2"	5/8"	3/4"	1"
1,000	RX-15	RX-15	RX-15	RX-15	RX-15
5,000	RX-15	RX-15	RX-15	RX-30	RX-30
7,500	RX-15	RX-15	RX-30	RX-30	RX-60
10,000	RX-15	RX-30	RX-30	RX-60	RX-60
14,000	RX-15	RX-30	RX-60	RX-60	Contact AMTROL
18,000	RX-30	RX-60	RX-60	RX-60	
22,000	RX-30	RX-60	RX-60		
30,000	RX-30	RX-60			

Sizing based on: 12 PSIG fill; 30 PSIG relief valve; 120° F Average temperature.
System filled with water. For glycol applications, consult AMTROL Technical Support.

Solar Extrol® Sizing

System Volume (Gallons)	Average System Operating Temperature				
	140° F	160° F	180° F	200° F	220° F
10	SE-15	SE-15	SE-15	SE-15	SE-15
20	SE-30	SE-30	SE-30	SE-30	SE-30
30	SE-30	SE-30	SE-60	SE-60	SE-60
40	SE-60	SE-60	SE-60	Contact AMTROL	
50	SE-60	SE-60			

Sizing based on: 25 PSIG fill; 50 PSIG relief valve; 50% water and propylene glycol max.
For other applications, consult AMTROL Technical Support.

Comb. Package & Fill-Trol Equivalents

Extrol Model	EX Combination Package	Fill-Trol Model
EX-15	EX-1500	FT-109
EX-30	EX-3000	FT-110
EX-60	—	FT-111
EX-90	—	FT-112



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