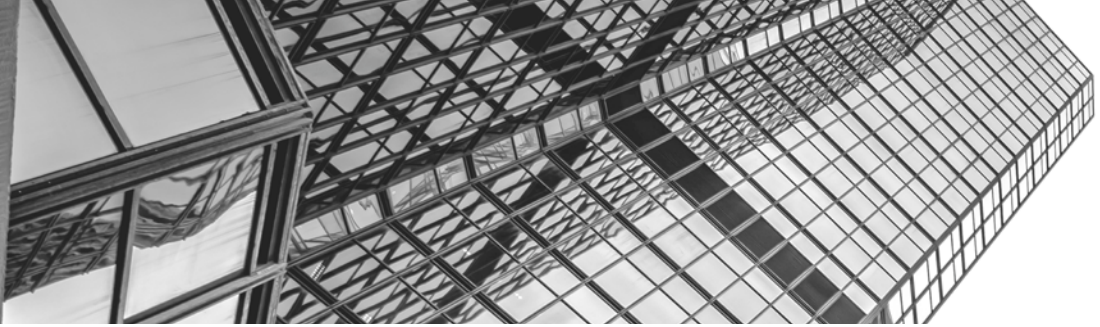




hydronic efficiency product guide

effective January, 2024



Since 1956, Flamco has worked to develop, produce, and sell high-quality components for hydronic systems, **bringing great visions to life**

Sustainable heating and cooling is an everyday life concern. Hydronic systems help reduce energy and emissions and therefore support sustainability in every step of the building life cycle. They are sometimes invisible but always contribute fundamentally to how a building functions.

We aim to ensure efficiency from source to emitter. Our engineers are passionate about mission-critical building technology systems. We pave the way for sustainable heating and cooling for eco-friendly residential, commercial, and industrial buildings through innovative products like magnetic air & dirt separators, expansion vessels, and vacuum deaerators.

In doing so, we remember our role in sustainability and why we strive to make our operations as clean, green, and waste-free as possible, and we always keep the total life cycle of our products in mind



we maximize system performance

and reduce energy consumption through

effective hydronic design, worldwide

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limited warranty

General: Aalberts hydronic flow control warrants, to its initial purchaser only, that its products which are delivered to this initial purchaser will be of the kind described in the order or price list and will be free of defects in workmanship or material for a period determined in the chart below from the date of delivery to you, our initial purchaser. This warranty applies to Nexus Valve, Flamco, and Sentinel brand products.

Should any failure to conform to this warranty appear within the warranty period after the date of the initial delivery to our initial purchaser, Aalberts hydronic flow control will, upon written notification thereof and substantiation that the goods have been stored, installed, maintained and operated in accordance with Aalberts hydronic flow control's recommendations and standard industry practice, correct such defects by suitable repair or replacement at Aalberts hydronic flow control's own expense.

Limitation of Liability: Aalberts hydronic flow control shall not under any circumstances be liable for special or consequential damages such as, but not limited to, damages or to loss of other property or equipment, loss of profits or revenue, cost of capital, cost of purchased or replacement goods, or claims of customers of our initial purchase. The remedies of our initial purchaser, and all others, set forth herein, are exclusive, and the liability of Aalberts hydronic flow control with respect to same shall not, except as expressly provided herein, exceed the price of the goods upon which such liability is based.

• Flamco - Efficiency & Safety Products	5 years
• Flamco - Pressurization & Storage Products	5 years
• Flamco - BaseFlex	2 years
• Flamco - Active Deaeration	2 years
• Sentinel - All Products	6 months from date of purchase

* It is the end user's responsibility to confirm that items intended for use satisfy applications, local codes, and standards.



air & dirt removal

Air and dirt removal products for hydronic systems are essential for maintaining system efficiency and longevity by eliminating trapped air and debris that can cause corrosion, blockages, and reduced heat transfer. These products ensure optimal fluid flow, reduce maintenance costs, and improve overall system performance.

- Automatic air vents
- Residential magnetic air & dirt separators
- Commercial magnetic air & dirt separators

Flexvent

Automatic air vent NPT / MNPT

- Leakproof sealer rings



Part Number - NPT	Size	MOQ
27749	1/2" w/shutoff	1
27776	1/8" w/shutoff	1

Part Number - MNPT	Size	MOQ
27726	3/8" w/shutoff	1
27736	3/4" w/shutoff	1
27781	1/8-3/8" w/shutoff	

Flexvent Top

Automatic air vent NPT / FNPT

- Serviceable float



Part Number - NPT	Size	MOQ
28511	3/4" w/shutoff	1

Part Number - FNPT	Size	MOQ
28518	1/2" w/shutoff	1

Flexvent Pro

Automatic air vent NPT

- Garden hose connection



Part Number - NPT	Size	MOQ
28521	1/2"	1

Flexvent Super

Automatic air vent NPT

- Smart filter



Part Number - NPT	Size	MOQ
28545	3/4"	1

XStream Vent Clean

Magnetic air / dirt separator

NPT / Press

- Unique Eco and Max modes, bi-directional with a 360° rotating connection, and pre-installed insulation



Part Number - NPT	Size	MOQ	Part Number - Press	Size	MOQ
11161	¾"	1	11161P	¾"	1
11162	1"	1	11162P	1"	1
11163	1¼"	1	11163P	1¼"	1
11164	1½"	1	11164P	1½"	1
11165	2"	1	11165P	2"	1

XStream Clean

Magnetic dirt separator

NPT / Press

- Unique Eco and Max modes, bi-directional with a 360° rotating connection, and pre-installed insulation



Part Number - NPT	Size	MOQ	Part Number - Press	Size	MOQ
11131	¾"	1	11131P	¾"	1
11132	1"	1	11132P	1"	1
11133	1¼"	1	11133P	1¼"	1
11134	1½"	1	11134P	1½"	1
11135	2"	1	11135P	2"	1

XStream Vent

Air separator

NPT / Press

- Unique Eco and Max modes, bi-directional with a 360° rotating connection, and pre-installed insulation



Part Number - NPT	Size	MOQ	Part Number - Press	Size	MOQ
11101	¾"	1	11101P	¾"	1
11102	1"	1	11102P	1"	1
11103	1¼"	1	11103P	1¼"	1
11104	1½"	1	11104P	1½"	1
11105	2"	1	11105P	2"	1

Flamcovent Clean Smart

Magnetic air & dirt separator

ASME / NON-ASME Flanged

- Double-thrust function ensures optimal performance by removing even the tiniest microbubbles and dirt particles



Part Number: ASME	Size	MOQ
FSADS-200A	2"	1
FSADS-250A	2 ½"	1
FSADS-300A	3"	1
FSADS-400A	4"	1
FSADS-500A	5"	1
FSADS-600A	6"	1
FSADS-800A	8"	1
FSADS-1000A	10"	1
FSADS-1200A	12"	1
FSADS-1400A	14"	1
FSADS-1600A	16"	1
FSADS-2000A	20"	1
FSADS-2400A	24"	1

Part Number: NON-ASME	Size	MOQ
FSADS-250N	2 ½"	1
FSADS-300N	3"	1
FSADS-400N	4"	1
FSADS-500N	5"	1
FSADS-600N	6"	1

* NON-ASME sizes 8" - 24" are special order only

* Flamcovent Clean Smart - Patent # US 9,884,270 B2

Vent Top Assembly

Replacement air vent for FSADS

NPT



Part Number	MOQ
28555	1

Vent Cap

Replacement vent for FSADS

NPT



Part Number	MOQ
28554	1

Bleed Valve

Replacement bleed valve for FSADS

NPT



Part Number	MOQ
FAM367	1

Dirt Scraper/Magnet Drain Assembly

Replacement dirt scraper for FSADS

NPT



Part Number	MOQ
31250	1

hydraulic separation

Hydraulic balancing ensures the correct amount of water is delivered to the right place at the right time, eliminating imbalances that occur when using multiple circuits and pumps. Hydraulic separation enhances system regulation, significantly improves heat transfer, and helps prevent pump damage caused by overload and wear.

- NexBalance EcoPlus C
- FlexFlow Balancer

NexBalance EcoPlus C

Hydraulic separator

NPT

- Offset design for 99% thermal transfer rate - insulation jacket included



Part Number	Size	MOQ
FHS-100	1"	1
FHS-125	1 ¼"	1
FHS-150	1 ½"	1
FHS-200	2"	1

FlexFlow Balancer

Magnetic hydraulic separator

Flanged

- Intelligent design allows thermal layers to form more easily, reducing heat loss - includes a built-in magnetic dirt scrap-



Part Number	Size	MOQ
FMHS-250A	2 ½"	1
FMHS-300A	3"	1
FMHS-400A	4"	1
FMHS-500A	5"	1
FMHS-600A	6"	1
FMHS-800A	8"	1
FMHS-1000A	10"	1
FMHS-1200A	12"	1

advanced filtration

Maximize the performance and lifespan of your hydronic system with our cutting-edge particle and sludge separation solutions. Remove dirt and impurities to ensure superior water quality and long-lasting system durability through advanced filtration technology.

SideFlow Clean

Side stream filtration

NPT

- Filters a portion of the main flow, capturing dirt and magnetite with a filter bag and magnetic filtration



Part Number	Description	MOQ
17021	3.5L SideFlow Clean	1
17020	5.0L SideFlow Clean	1
17036	SFC Filter Bag 10 Microns 3.5L	1
17037	SFC Filter Bag 25 Microns 3.5L	1
17038	SFC Filter Bag 50 Microns 3.5L	1
17031	SFC Filter Bag 10 Microns 5L	1
17032	SFC Filter Bag 25 Microns 5L	1
17033	SFC Filter Bag 50 Microns 5L	1
17030	SFC C-Wrench 3.5L	1
17035	SFC C-Wrench 5L	1

active deaeration

Active deaeration devices utilize negative pressure technology to effectively eliminate dissolved gases from hydronic systems. Removing dissolved gasses reduces corrosion, enhances efficiency, and prolongs system lifespan, ensuring optimal performance and reliability.

- Pressure Step Deaerator
- Vacumat Eco

Pressure Step Deaerator

Vacuum deaerator for dissolved air

- Compact design - systems up to 40,000 gallons



Part Number	MOQ
FPD-250D	1

Vacumat Eco

Pressure-temperature controlled degasser

- Coming soon!



pressure maintenance

Pressure maintenance products are essential for safeguarding hydronic systems from excessive pressure due to the thermal expansion of water, effectively accommodating the expanded water as system temperatures rise.

- BaseFlex
- FlexTank
- Flamcomat

BaseFlex

Residential expansion tank

NPT

- Full acceptance tank with an EPDM bladder that protects against corrosion, pre-charged with nitrogen



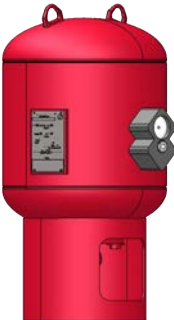
Part Number	Size	MOQ
FBF-04.7G	4.75 Gallon	1
FBF-06.6G	6.6 Gallon	1

FlexTank

Commercial hydronic expansion tank

ASME

- Full acceptance tank that is pre-charged and includes an integrity monitor and sensor port



Part Number	Size	MOQ	Part Number	Size	MOQ
FEXP-010	10 Gallon	1	FEXP-422	422 Gallon	1
FEXP-013	13 Gallon	1	FEXP-528	528 Gallon	1
FEXP-023	23 Gallon	1	FEXP-660	660 Gallon	1
FEXP-035	35 Gallon	1	FEXP-792	792 Gallon	1
FEXP-053	53 Gallon	1	FEXP-1056	1056 Gallon	1
FEXP-079	79 Gallon	1	FEXP-1320	1320 Gallon	1
FEXP-106	106 Gallon	1	FEXP-1980	1980 Gallon	1
FEXP-132	132 Gallon	1	FEXP-2640	2640 Gallon	1
FEXP-158	158 Gallon	1	FEXP-3963	3963 Gallon	1
FEXP-211	211 Gallon	1			
FEXP-264	264 Gallon	1			
FEXP-317	317 Gallon	1			
FEXP-370	370 Gallon	1			

Flamcomat

Compressor based expansion automat

ASME

- Coming soon!



efficiency & safety

These products prioritize safety by preventing system malfunctions and pressure issues, ensuring reliable, long-term operation in any installation. Additionally, they optimize energy usage and maintain consistent temperature control, all while offering contractors easy installation solutions.

- Flexconsole
- Boiler Pak
- Autofill Valve
- Backflow Preventer

Flexconsole 97975

Expansion tank mounting bracket NPT

- Manual air vent

Part Number	Size	MOQ
97975	½" x ½"	1

Flexconsole 97977

Expansion tank mounting bracket NPT

- Flow through port

Part Number	Size	MOQ
97977	½" x ½" x ½"	1

Flexconsole 97976

Expansion tank mounting bracket NPT

- Certified for potable water - WQA certified NSF61/372

Part Number	Size	MOQ
97976	¾" x ½"	1



Boiler Pak Basic with Vent

Near boiler trim kit

NPT

- Flow through Flexconsole, BaseFlex expansion tank, Flexvent air vent, Autofill Valve, Backflow Preventer, Nexus UltraT and Configur-A-Ball ball valves



Part Number	Description	MOQ
BPBV-475-XXX-F	Boiler Pak Basic, 4.75 G Tank, Auto Air Vent	1
BPBV-660-XXX-F	Boiler Pak Basic, 6.6 G Tank, Auto Air Vent	1

Boiler Pak Basic with Air Separator

Near boiler trim kit

NPT

- Manual air vent Flexconsole, BaseFlex expansion tank, XStream Vent, Autofill Valve, Backflow Preventer, Nexus UltraT and Configur-A-Ball ball valves



Part Number	Description	MOQ
BPBA-475-100-F	Boiler Pak Basic, 4.75 G Tank, 1" Air Separator	1
BPBA-475-125-F	Boiler Pak Basic, 4.75 G Tank, 1 1/4" Air Separator	1
BPBA-660-100-F	Boiler Pak Basic, 6.6 G Tank, 1" Air Separator	1
BPBA-660-125-F	Boiler Pak Basic, 6.6 G Tank, 1 1/4" Air Separator	1

Boiler Pak Premium with Manual Vent

Near boiler trim kit

NPT

- Manual air vent Flexconsole, BaseFlex expansion tank, XStream Vent Clean, Autofill Valve, Backflow Preventer, Nexus UltraT and Configur-A-Ball ball valves



Part Number	Description	MOQ
BPPV-475-100-F	Boiler Pak Premium, 4.75 G Tank, 1" Air/Dirt Separator	1
BPPV-475-125-F	Boiler Pak Premium, 4.75 G Tank, 1 1/4" Air/Dirt Separator	1
BPPV-660-100-F	Boiler Pak Premium, 6.6 G Tank, 1" Air/Dirt Separator	1
BPPV-660-125-F	Boiler Pak Premium, 6.6 G Tank, 1 1/4" Air/Dirt Separator	1

Boiler Pak Premium with Flow Through

Near boiler trim kit

NPT

- Flow through Flexconsole, BaseFlex expansion tank, XStream Vent Clean, Autofill Valve, Backflow Preventer, Nexus UltraT and Configur-A-Ball ball valves



Part Number	Description	MOQ
BPPF-475-100-F	Boiler Pak Premium, 4.75 G Tank, 1" Air/Dirt Separator (FT)	1
BPPF-475-125-F	Boiler Pak Premium, 4.75 G Tank, 1 ¼" Air/Dirt Separator (FT)	1
BPPF-660-100-F	Boiler Pak Premium, 6.6 G Tank, 1" Air/Dirt Separator (FT)	1
BPPF-660-125-F	Boiler Pak Premium, 6.6 G Tank, 1 ¼" Air/Dirt Separator (FT)	1

Autofill Valve

Boiler fill valve with gauge

NPT

- Built in shutoff valve with O-ring connections for leak proof seal



Part Number	Size	MOQ
AF-050M	½"	1

Dual Check Backflow Preventer

Backflow preventer

NPT / SWT

- Low lead with atmospheric port



Part Number - NPT	Size	MOQ
BFPNL-050F	½" FNPT X ½" FNPT	1
BFPNL-075F	¾" FNPT X ¾" FNPT	1

Part Number - SWT	Size	MOQ
BFPNL-050S	½" SWT X ½" SWT	1
BFPNL-075S	¾" SWT X ¾" SWT	1

water treatment products

Our water treatment products are designed to meet the needs of both domestic and commercial hydronic heating installers and engineers, providing optimal lifetime protection for hydronic systems.

- X100
- X200
- X300
- X400
- X500
- X800
- X100 Test Kits
- JetFlush 90
- Vortex

Sentinel X100

Corrosion inhibitor

- Fights corrosion and limescale buildup - is pH neutral



Part Number	Size	Box Qty	MOQ
X100-RD	10 OZ Aerosol	4	1
X100-QT	Quart	4	1
X100-1GL	1 Gallon	4	1
X100-5GL	5 Gallon	1	1
X100-55GL	55 Gallon	1	1

Sentinel X200

Noise reducer

- Leave in treatment to reduce boiler noise issues



Part Number	Size	Box Qty	MOQ
X200-RD	10 OZ Aerosol	4	1
X200-1GL	1 Gallon	4	1
X200-5GL	5 Gallon	1	1

Sentinel X300

New system cleaner

- Removes oil, grease, & flux from new systems



Part Number	Size	Box Qty	MOQ
X300-QT	Quart	4	1
X300-1GL	1 Gallon	4	1
X300-5GL	5 Gallon	1	1

Sentinel X400

System restorer

- Removes sludge and restores system effectiveness



Part Number	Size	Box Qty	MOQ
X400-RD	10 OZ Aerosol	4	1
X400-QT	Quart	4	1
X400-1GL	1 Gallon	4	1
X400-5GL	5 Gallon	1	1
X400-55GL	55 Gallon	1	1

Sentinel X500

Inhibited antifreeze

- Prohibits pipes from sub zero temperatures with enhanced protection



Part Number	Size	Box Qty	MOQ
X500-5GL	5 Gallon	1	1
X500-55GL	55 Gallon	1	1
X500-275GL	275 Gallon	1	1
X500-30P5GL	30% 5 Gallon	1	1
X500-30P55GL	30% 55 Gallon	1	1
X500-30P275GL	30% 275 Gallon	1	1
X500-35P5GL	35% 5 Gallon	1	1
X500-35P55GL	35% 55 Gallon	1	1
X500-35P275GL	35% 275 Gallon	1	1
X500-40P5GL	40% 5 Gallon	1	1
X500-40P55GL	40% 55 Gallon	1	1
X500-40P275GL	40% 275 Gallon	1	1
X500-50P5GL	50% 5 Gallon	1	1
X500-50P55GL	50% 55 Gallon	1	1
X500-50P275GL	50% 275 Gallon	1	1

Sentinel X800

Fast acting cleaner

- Fast acting cleaner removes deposits from system surfaces



Part Number	Size	Box Qty	MOQ
X800-RD	10 OZ Aerosol	4	1

Sentinel X100 Test Kits

Corrosion inhibitor test kit

- Quick check for optimal levels of X100 in system



Part Number	Size	MOQ
X100-TEST	Single Kit	1
X100-TEST 10 PK	10 - Pack	1

JetFlush 90

Power flush unit

- Self priming with instantaneous flow reversal and direct flush capabilities



Part Number	Size	MOQ
JF-90	Power Flush Unit	1
JF-TURB	Turbidity Tubes	1

Vortex

Magnetic dirt filter

NPT

- 9,000 gauss magnet for superior magnetic particle removal



Part Number	Size	MOQ
VTX300 75	3/4"	1
VTX500 1	1"	1

winning together for tomorrow

- For nearly 50 years, Aalberts hydronic flow control has been on the cutting edge of engineering technology, working with its customers to create seamless solutions for their needs.
- Sustainability is just common sense. We are committed to achieving our goals sustainably, and to offering our customers quality solutions that are clean, green, and waste-free.
- Challenging the status quo, we think outside the box. We see the bigger picture while focussing on the small. At Aalberts hydronic flow control we want to win with people.
- Nexus and Flamco, part of Aalberts NV, operate under the Aalberts hydronic flow control overarching brand and provide innovative and efficient solutions 'from source to emitter'.

what we do...

- Realize energy savings through improved system performance
- We engineer solutions to meet customer specifications
- System optimization to extend life cycle of installations
- Reduction of installation time and total cost of ownership



building. climate. excellence.

Aalberts hydronic flow control, a global team

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