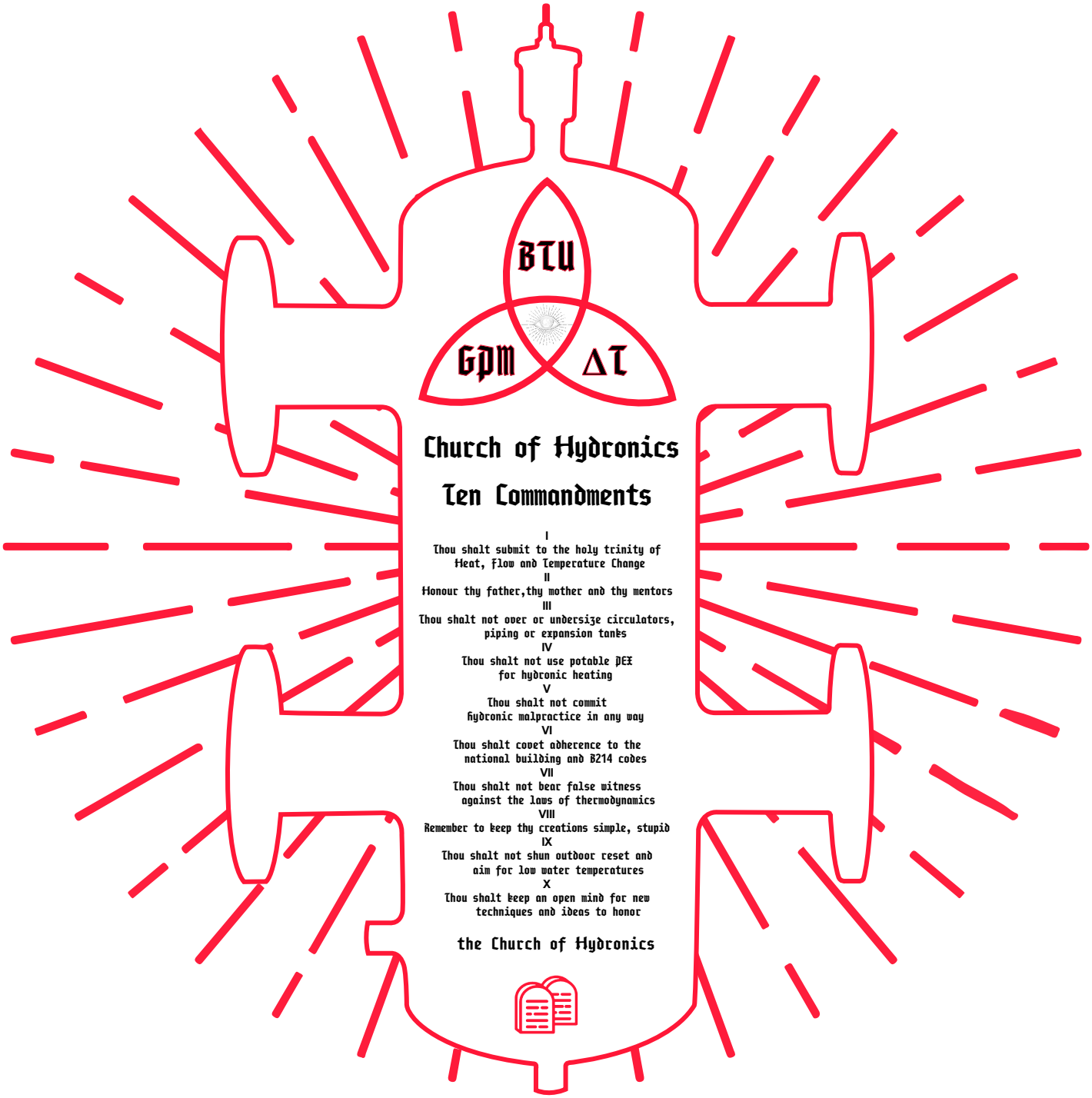
Rhella

You Know You Want It



Church of Hydronics

Ten Commandments

I
Thou shalt submit to the holy trinity of
Heat, flow and Temperature Change
II
Honour thy father,thy mother and thy mentors
III
Thou shalt not over or undersize circulators,
piping or expansion tanks
IV
Thou shalt not use potable PEX
for hydronic heating
V
Thou shalt not commit
hydronic malpractice in any way
VI
Thou shalt covet adherence to the
national building and B214 codes
VII
Thou shalt not bear false witness
against the laws of thermodynamics
VIII
Remember to keep thy creations simple, stupid
IX
Thou shalt not shun outdoor reset and
aim for low water temperatures
X
Thou shalt keep an open mind for new
techniques and ideas to honor

the Church of Hydronics

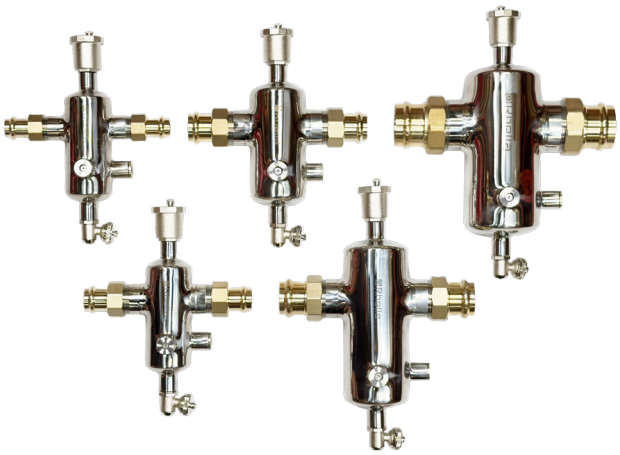
LOW LOSS HEADERS

4 in 1 Stainless Steel Hydraulic Separators

Rhella 4-in-1 Hydraulic Separators are designed to provide efficient separation of dirt, air and ferrous particles while maintaining optimal hydraulic balance within hydronic systems.
Manufactured from high-grade 304 stainless steel, for superior corrosion resistance and durability.
Featuring 304 stainless steel internal baffles or Pall rings as coalescing media.
A dedicated side connection serves as a convenient port for the expansion tank and system fill.
This point of no pressure change is optimal for an expansion tank to connect to, eliminating the need to source and install a separate fill tee elsewhere in the piping network, simplifying installation and reducing potential leak points.

Model# SKU	Connection	Magnet	Pall Rings	Weight lb	Flow/GPM
LLH100	1" MNPT	×	×	4.5	11
LLH100M	1" MNPT	✓	×	5.2	11
LLH100MU	1" Union	✓	×	6.0	11
LLH125	1-1/4" MNPT	×	×	6.8	18
LLH125M	1-1/4" MNPT	✓	×	7.4	18
LLH125MU	1-1/4" Union	✓	×	8.5	18
LLH150	1-1/2" MNPT	×	×	9.6	26
LLH150M	1-1/2" MNPT	✓	×	10.0	26
LLH150MU	1-1/2" Union	✓	×	11.4	26
LLH200M	2" MNPT	✓	×	14.2	37
LLH200MU	2" Union	✓	×	16.8	37
LLH200PU	2" Union	✓	✓	22.6	37
LLH200PF	2" Flange	✓	✓	34.6	37
LLH250P	2-1/2" Flange	✓	✓	60.6	90
LLH300P	3" Flange	✓	✓	86.0	145
LLH400P	4" Flange	✓	✓	114.0	260
LLH600P	6" Flange	✓	✓	216.0	570

3 in 1 Stainless Steel Air Separators



Rhella 3-in-1 Air & Dirt Separators are engineered to protect hydronic heating and cooling systems from the harmful effects of entrained air, suspended debris, and ferrous contaminant. Constructed from high-grade 304 stainless steel, the air separator provides excellent corrosion resistance, durability, and long-term reliability in both heating and chilled-water applications

- **Serviceable Design:**

Removable air vent allows all sizes to be easily washed out and fully drained for complete maintenance access.

Dual-Stage Debris Removal:

- **Dirt Filtration:**

The controlled flow velocity allows suspended dirt and non-magnetic particles to settle at the bottom of the unit for easy removal via the service drain. Serviceable via removable air vent — all sizes can easily be washed out if the air vent is removed , and the unit can be fully drained.

- **Ferrous Contamination:**

An integrated, removable M50 grade Neodymium magnetic rod captures ferrous particles, preventing abrasive wear on pumps and valves.

- **Low Maintenance Design:**

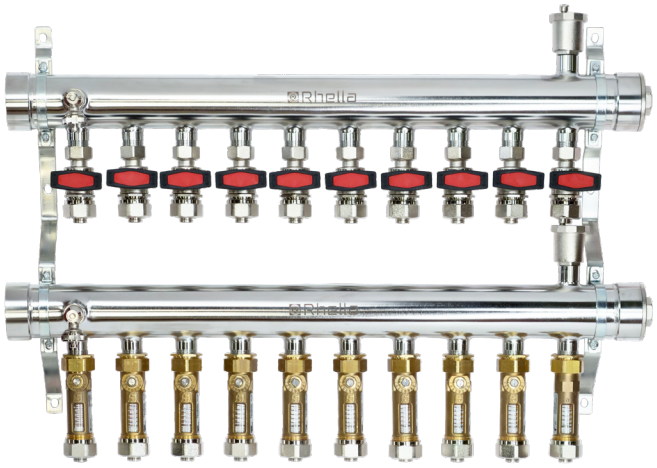
The integrated automatic air vent, magnetic separator, collection chamber, and service drain simplify routine system maintenance and reduce the need for manual air purging and system cleaning.

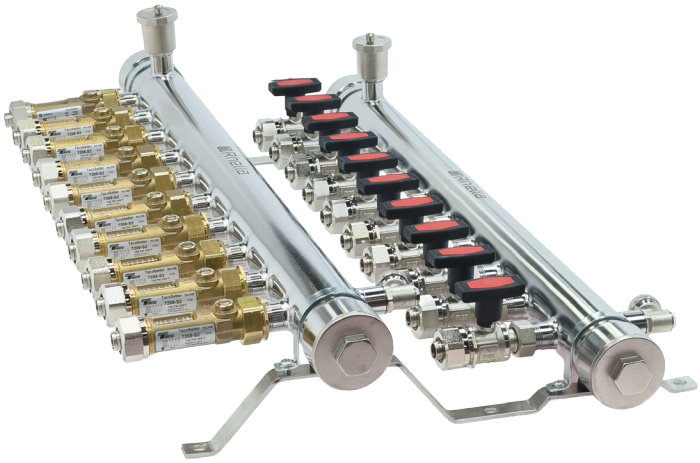
Technical Specifications:

- 304 stainless steel body and Pall rings
- Connections: Union or 2 x ANSI B16.5 Class 150 Flanges
- Magnet: M50 grade Neodymium rod, 12,000 gauss, temperature rated to 90°C
- Maximum Operational Pressure: 150 PSI
- Maximum Operation temperature: 210°F
- Fluids: water, max. 50% glycol

Model# SKU	Connection	Magnet	Pall Rings	Weight lb	Flow/GPM
AIR075P	3/4" Union MNPT	✓	✓	1.1	6
AIR100P	1" Union MNPT	✓	✓	1.3	10
AIR125P	1-1/4" Union MNPT	✓	✓	1.7	15
AIR150P	1-1/2" Union MNPT	✓	✓	2.4	22
AIR200P	2" Union MNPT	✓	✓	2.9	39
AIR250P	2-1/2" Flange	✓	✓	51	108
AIR300P	3" Flange	✓	✓	67	144
AIR400P	4" Flange	✓	✓	76	398
AIR600P	6" Flange	✓	✓	114	572

2" XFM - SNOW MELTING MANIFOLDS



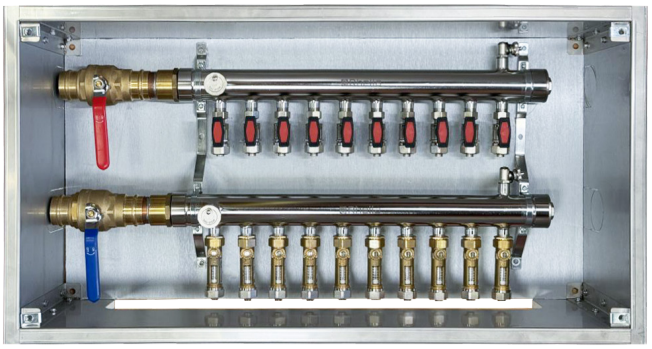


The Rhella Xtreme Flow Snow Melting Manifold is engineered for high-capacity snow and ice melting applications. Featuring a true 2-1/2" unrestricted flow path through the supply and return trunks ensures maximum hydraulic efficiency and balanced flow to every circuit. Constructed from durable SEA 304 Stainless Steel offering superior corrosion resistance and durability.

Precision Flow Metering: Each supply circuit is equipped with a high-quality TacoSetter Inline balancing valve, allowing technicians to precisely visualize and set the required flow to every loop.
This ensures controlled flow delivery and feedback.

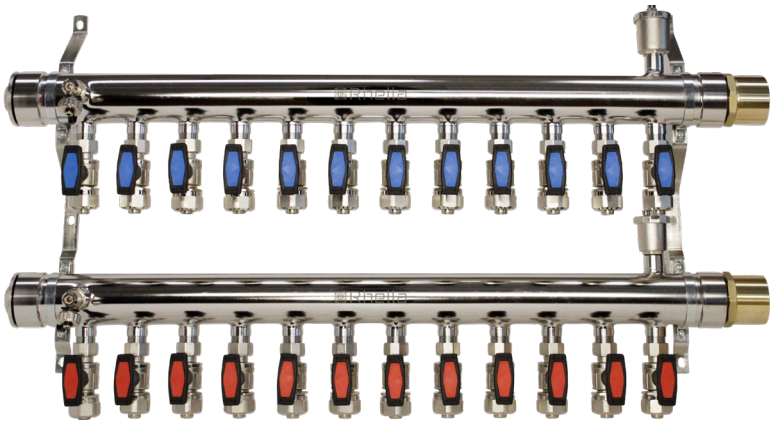
Model Options: SKU: XFM204F – XFM216F
Available from 4 to 16 Circuit sizes. Featuring red isolation ball valves and TacoSetter Inline balancing valves.

Ground Recessed Manifold Vaults for XFM Series Manifolds



Rhella manifold vaults provide a clean, safe, and professional below-grade enclosure for XFM Series manifolds in snowmelt and radiant heating systems. Constructed from durable 201 stainless steel, these vaults offer excellent corrosion resistance and long-term reliability when exposed to the elements.
The design ensures that the manifold can be accessed for maintenance while remaining fully protected underground.

Model# SKU	Recomended Circuit Count	Dimension - mm			Lid Weight		Base Weight		Shipping Weight
		W	L	H	lb	kg	lb	kg	
UGH043	4 to 10 loops	1180	625	300	60	27.2	36	16.3	108 lb / 49 kg
UGH059	11 to 16 loops	1580	625	300	76	34.5	43	19.5	134 lb / 61 kg



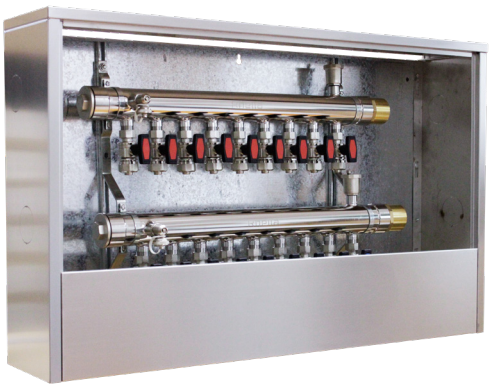
True 2-1/2" Full Flow Design: Unlike standard manifolds that restrict flow, the Xtreme series offers an oversized 2-1/2" internal diameter through the supply and return trunks. This design minimizes pressure drop and ensures consistent flow distribution critical for large-scale snow melting systems. Max Flow Rate: 75 gpm Trunk, 4.9 gpm Circuit

Integrated Air Vents and Drains: Every unit comes standard with built-in automatic air vents and service drains.

Versatile Installation: The Rhella Xtreme Flow Manifold can be mounted in vertical or horizontal orientation. In either position of the interchangable air vents and drains remain functional.

Model Options: SKU: XFM204 to XFM216 - Optional Pex Adapters: 1/2", 5/8", and 3/4" sizes. Available from 4 to 16 Circuit sizes, with red and blue isolation ball valves.

Wall Mounted 201 Stainless Steel Lockable Manifold Cabinet



The Rhella Wall Mounted Manifold Cabinet is a weather-proof, durable enclosure designed to protect Rhella 2" XFM Snow Melting Manifolds. Constructed from 1.3mm (16-gauge) 201 stainless steel, the cabinet offers superior resistance to corrosion, rust, and harsh weather conditions, ensuring long-term durability. Offers long-lasting protection for your Snow Melting systems in both indoor and outdoor applications.

Model Number	XFM Max Size	Lenght	Height	Depth	Weight
XFMCS8	Up to 8 Loops	31-1/2"	26-3/4"	8-3/4"	32 lbs
XFMCM8	Up to 12 Loops	41-3/4"	26-3/4"	8-3/4"	40 lbs
XFMCL8	Up to 16 Loops	55-1/8"	26-3/4"	8-3/4"	50 lbs
XFMCX8	Up to 22 Loops	70-3/4"	26-3/4"	8-3/4"	60 lbs

DISTRIBUTION HEADERS

304 Stainless Steel Hydronic Distribution Headers

The Rhella Hydronic Distribution Headers provide efficient and reliable distribution for hydronic systems. Available in 1-1/4", 1-1/2", and 2" trunk connection sizes, they support 2 to 8 branches, plus one side connection, depending on the model.

- **Key Features:**

Constructed from high-grade 304 Stainless Steel, these headers offer superior corrosion resistance and durability. They feature quick assembly with gasketed union connections and are designed to support balanced flow across multiple radiant circuits.

- **Optimized Flow Dynamics**

Each header includes 1" MNPT branch connections with a recommended branch flow of up to 4.9 GPM 1-1/4" and 1-1/2" Models: Maximum trunk flow of 26 GPM @ 4 ft/sec. 2" Models: Maximum trunk flow of 42 GPM @ 4 ft/sec.

- **Included Components:** Each distribution header ships ready for installation with: Header pair with BSP end caps and mounting brackets. Optional Accessories: Horizontal Branch Adapter for side connections, recommended for use with HSU Series Rhella Low Loss Headers (sold separately)

Trunk Connection	SKU	Trunk Diameter	Branch Count	Branch Connection	Lenght	Low Loss Header SKU
1-1/4"	H125103	1-1/2"	2 X 1" Branch + 1-1/4" Side	1" MNPT	21-1/2" (546mm)	HSU125
1-1/4"	H125104	1-1/2"	3 X 1" Branch + 1-1/4" Side	1" MNPT	30-1/2" (774mm)	HSU125
1-1/4"	H125105	1-1/2"	4 X 1" Branch + 1-1/4" Side	1" MNPT	39-1/2" (1,003mm)	HSU125
1-1/2"	H150104	1-1/2"	3 X 1" Branch + 1-1/2" Side	1" MNPT	30-1/2" (775mm)	HSU150
1-1/2"	H150105	1-1/2"	4 X 1" Branch + 1-1/2" Side	1" MNPT	39-1/2" (1,003mm)	HSU150
1-1/2"	H150106	1-1/2"	5 X 1" Branch + 1-1/2" Side	1" MNPT	48-1/2" (1,232mm)	HSU150
1-1/2"	H150107	1-1/2"	6 X 1" Branch + 1-1/2" Side	1" MNPT	57-1/2" (1,460mm)	HSU150
2"	H200105	2"	4 X 1" Branch + 2" Side	1" MNPT	41-3/8" (1,050mm)	HSU200
2"	H200106	2"	5 X 1" Branch + 2" Side	1" MNPT	50-3/8" (1,279mm)	HSU200
2"	H200107	2"	6 X 1" Branch + 2" Side	1" MNPT	59-3/8" (1,507mm)	HSU200
2"	H200108	2"	7 X 1" Branch + 2" Side	1" MNPT	68-3/8" (1,736mm)	HSU200
2"	H200109	2"	8 X 1" Branch + 2" Side	1" MNPT	77-3/8" (1,965mm)	HSU200

HEAT EXCHANGERS

HXM Series — Brazed Plate Heat Exchangers

High-efficiency heat transfer for hydronic heating, snow melt, and chilled-water systems. Available in three sizes to match your flow requirements.

Constructed from SUS304 stainless steel plates with copper brazing, the HXM series delivers maximum heat transfer in a compact, stackable design.
Built for decades of reliable service in demanding applications.

- SUS304 Stainless Steel plates & connections
- Copper (Cu) Brazing - high thermal conductivity
- 290 PSI Design Pressure
- Operating range -310°F to 437°F
- Compact design

Model# SKU	Connections	Number of Plates	Cv	Heat Transfer Area	Weight
HXM200	1-1/2" MNPT	30	7.16	1.05 m2 / 11.3 sq.ft	6.4 kg / 14 lb
HXM400	1-1/2" MNPT	50	5.67	1.65 m2 / 17.76 sq.ft	9.2 kg / 20.2 lb
HXM600	2" Cold, 1-1/2" Hot MNPT	60	20.48	3.78 m2 /40.68 sq.ft	22 kg / 48.4 lb

EXPANSION TANK ARM

ETA330 - Rhella 304 Stainless Steel Expansion Tank Arm

Heavy-duty, wall-mounted support for expansion tanks. Designed for alignment, stability, and easy installation in residential and commercial hydronic systems.

Extended Length from Wall — accepts the largest expansion tanks

Constructed from 304 stainless steel, the ETA330 provides a rigid, corrosion resistant connection point between the wall and the expansion tank.
The extended length and pre-aligned connections ensure compatibility with standard pipe stays and larger tank sizes, simplifying installation.

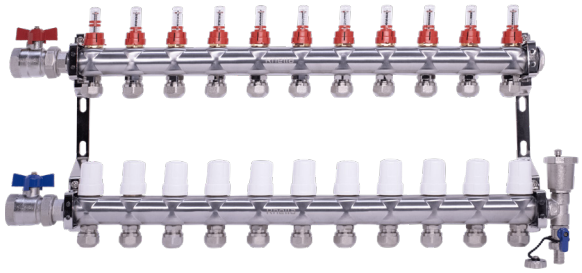
Included in the Box

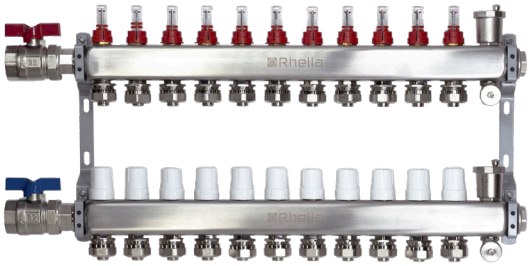
- 1 x Expansion Tank Arm (304 SS) with ½" FIP connections
- 1 x ½" BSP Air Vent
- 1 x ¼" NPT 0-60 PSI Pressure Gauge

Optional Adapters

- ½" FIP × ¾" MIP Adapter
- ½" FIP × 1" MIP Adapter

HYDRONIC MANIFOLDS





Rhella 1" RAM 304 stainless steel manifolds with **Taconova** flow meters, mounting brackets, and 1" threaded ends.

- Flow Rate: 14 gpm Trunk, 1.5 GPM Circuit Available from 2 to 13 Circuit sizes, with red and blue isolation ball valves.
- Model Options: SKU: RAM102 to RAM113
- Optional Pex Adapters: 1/2", 5/8" and 3/4" sizes

Rhella 1-1/4" HFM 304 stainless steel manifolds with **Taconova** flow meters, mounting brackets, and 1-1/4" threaded ends.

- Flow Rate: 18 gpm Trunk, 1.5 GPM Circuit Available from 2 to 12 Circuit sizes, with red and blue isolation ball valves.
- Model Options: SKU: HFM102 to HFM112
- Optional Pex Adapters: 1/2", 5/8" and 3/4" sizes

Wall Mounted 201 Stainless Steel Lockable Cabinet

Rhella MHS Series Wall Mounted Cabinet is a weather-proof, durable enclosure designed to protect Rhella 1" RAM and 1-1/4" HFM Radiant Manifolds. Constructed from 1.3mm (16-gauge) 201 stainless steel, the cabinet offers superior resistance to corrosion, rust, and harsh weather conditions, ensuring long-term durability. Offers long-lasting protection for your radiant heating systems in both indoor and outdoor applications.

Model#	Dimensions	Weight
MHS020	W: 19-3/4" X H: 27" X D: 4-3/4"	8.6 kg / 19 lb
MHS028	W: 27-1/2" X H: 27" X D: 4-3/4"	11.3 kg /25 lb
MHS036	W: 35-1/2" X H: 27" X D: 4-3/4"	13.6 kg / 30 lb

NOTES:

Rhella

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Ver: 2026.09.08