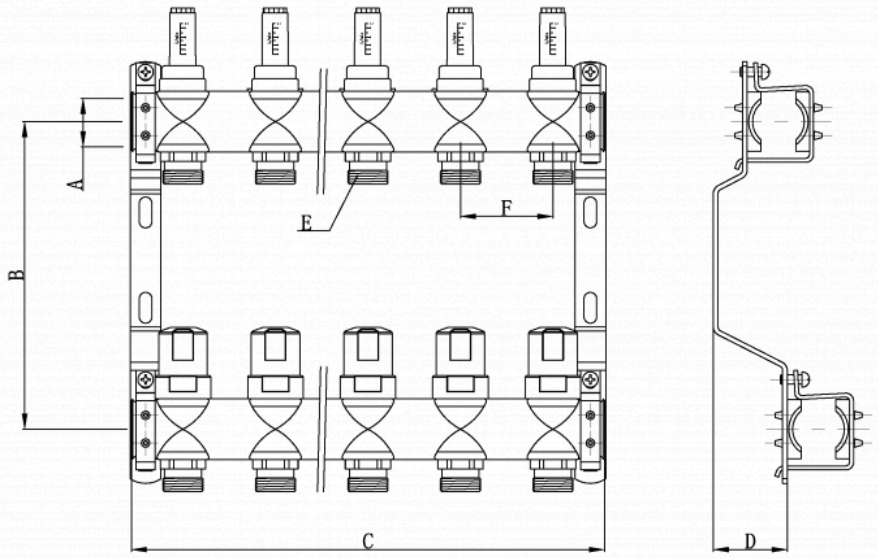
PRODUCT CUT SHEET

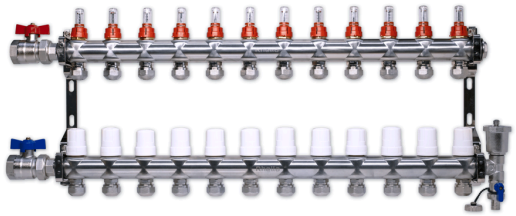
RAM102–RAM113

Radiant stainless steel manifold, 1″, 2 to 13 loops, with flow meters

1″ stainless steel radiant manifold with flow meters and thermal-actuator-ready loop valves.

2–13	14 GPM	1.15 GPM	145 psi
Loops	Rated flow, trunk	Rated flow, per loop	Max. pressure at 68 °F





FUNCTIONS

Flow meters

A flow meter on each loop shows the loop flow.

Actuator-ready

The circuit valves accept thermal actuators for room-by-room zoning.

Isolation

Red and blue 1″ ball valves isolate the supply and return.

Air and drain

An air vent with drain is included.

INCLUDED

- Manifold with flow meters and loop valves
- Mounting brackets
- 1 × 1″ end cap
- 1 × air vent with drain
- 2 × 1″ ball valves (1 red, 1 blue)
- Thermal actuator compatible circuit valves

PEX compression adapters (½″, ⅝″ or ¾″) sold separately.

MODELS

Model	Loops	C, in	C, mm
RAM102	2	5.31″	135
RAM103	3	7.68″	195
RAM104	4	10.10″	257
RAM105	5	12.40″	315
RAM106	6	14.76″	375
RAM107	7	17.13″	435
RAM108	8	19.50″	495
RAM109	9	21.85″	555
RAM110	10	24.20″	615
RAM111	11	26.60″	676
RAM112	12	28.95″	735
RAM113	13	31.32″	796

DIMENSIONS COMMON TO ALL MODELS

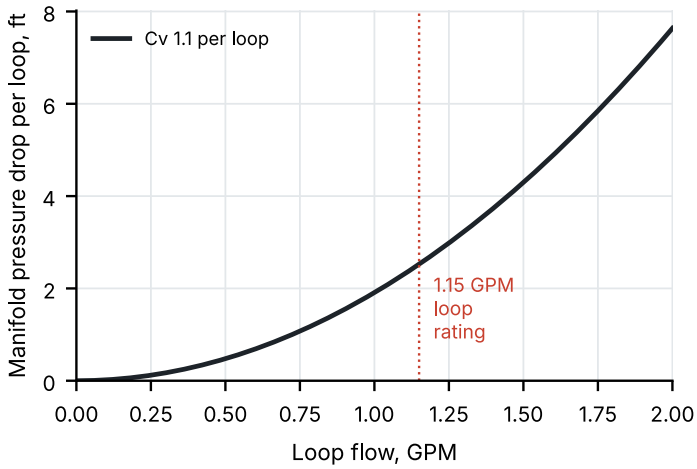
	A	B	D	E	F
in	1″	7.88″	1.89″	¾″ × 18 TPI	2.36″
mm	–	200	48	–	60

A header connection size · **B** supply to return header, centre to centre · **D** depth from the wall · **E** loop connection thread · **F** loop spacing · **C** overall length (see model table).

RAM102–RAM113

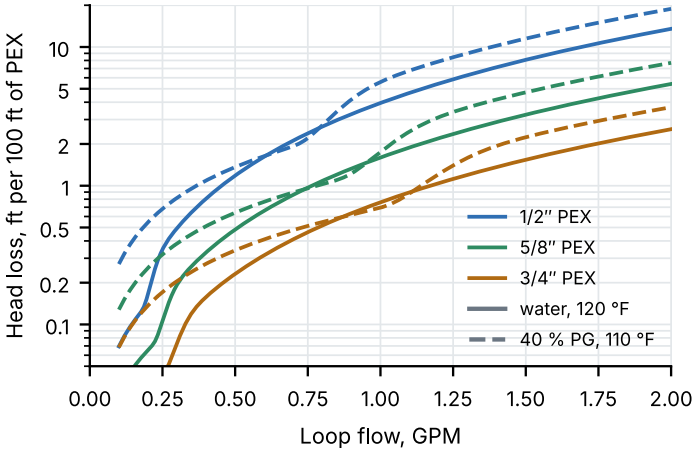
Radiant stainless steel manifold, 1″, 2 to 13 loops, with flow meters

MANIFOLD PRESSURE DROP PER LOOP



Calculated from the loop flow coefficient, Cv 1.1: pressure drop in psi = (GPM ÷ 1.1)², × 2.31 for ft of water. Excludes the PEX.

PEX LOOP HEAD LOSS



PEX CTS SDR 9, per 100 ft of tube. Loop head = manifold pressure drop + PEX head loss × length / 100.

TECHNICAL SPECIFICATIONS

Header	1″ SEA 304 stainless steel
Header thread	DN 25, 1″
Loops	2 to 13
Rated flow	14 GPM trunk; 1.15 GPM per loop
Flow coefficient	Cv 1.1 per loop
Max. operating pressure	145 psi at 68 °F; 87 psi at 158 °F; 44 psi at 194 °F

Test pressure	145 psi
Max. operating temperature	194 °F at 44 psi
Loop thread	20 mm (¾″ × 18 TPI)
PEX	½″, ⅝″ or ¾″, compression fittings
Application	Radiant heating
Warranty	2 years

CONNECTIONS

Connection	Size and type
Headers	DN 25, 1″ supply and return connections
Loops	20 mm thread (¾″ × 18 TPI), PEX compression
PEX	½″, ⅝″ or ¾″; compression adapters sold separately
Vents and drains	Air vent with drain
Isolation	2 × 1″ ball valves (1 red, 1 blue), included

INSTALLATION

Connect the supply and return to the 1″ (DN 25) header connections with full-size piping. Fit PEX compression adapters to suit the tubing (½″, ⅝″ or ¾″), then fill, purge and pressure-test the system at no more than 145 psi. Read each loop's flow on its flow meter. Keep within the pressure and temperature ratings: 145 psi at 68 °F; 87 psi at 158 °F; 44 psi at 194 °F.