



CALEFACTIO
RADIANT

PRODUCT CATALOG

Residential • Commercial

CALEFACTIO RADIANT.COM



Complete Radiant Heating System Design Service

Whether it's radiant floors or snow melting systems using various heat sources, our turnkey services include a customized looping plan, the complete design of your mechanical room, and a detailed list of necessary equipment, such as the boiler, pumps, and control systems.

With over 25 years of experience in hydronic heating, Calefactio offers fast and tailored solutions for residential and commercial projects across Canada. Our team of experts supports you at every step to ensure the efficient and successful completion of your project.

PROVIDED DOCUMENTS

Customized Looping Plan

A detailed looping plan is a strategic design that boosts radiant heating efficiency, ensures comfort, and adapts to the space.



Mechanical Room Design

A well-designed conceptual mechanical room organizes boilers, pumps, and manifolds for easy system comprehension and to facilitate installation.



Detailed Product List

A detailed product list paired with Calefactio's complete offering ensures accurate planning, smooth installation, and no missing components



Why Choose Us?

Expert Support, Anytime

Our team of specialized technicians, engineers, and designers is with you every step of the way. Whether you need guidance in selecting the right components, we're always available to ensure your project runs smoothly and successfully.



Save Time & Money

Our turnkey service helps streamline your project, making it faster and more efficient than the competition. With our no-pressure support approach, you get expert advice without any sales push – just practical solutions that fit your needs.



Proudly Canadian

With over 25 years of experience in hydronic heating, we offer fast and tailored solutions. Our products are designed by local experts who understand the specific needs of residential and commercial projects across Canada.



HAVE A PROJECT IN MIND?
Scan the QR code to submit
your design request now.



Calpex-R

Calefactio reticulated polyethylene tubing (PEX-a) are built with an anti-oxygen barrier that limits oxygen diffusion in the system to protect its components.

ROLL LENGTH

Model#	Description	Weight	
		lb	kg
CALPEX-R-12-300A	PEX-a 1/2" 300 in	18	8.1
CALPEX-R-12-1000A	PEX-a 1/2" 1000 in	59	26.8
CALPEX-R-58-300A	PEX-a 5/8" 300 in	14.5	10.9
CALPEX-R-58-400A	PEX-a 5/8" 400 in	32	14.5
CALPEX-R-58-500A	PEX-a 5/8" 500 in	40	18.1
CALPEX-R-58-1000A	PEX-a 5/8" 1000 in	80	36.3
CALPEX-R-34-100A	PEX-a 3/4" 100 in	11	5
CALPEX-R-34-300A	PEX-a 3/4" 300 in	35	15.9
CALPEX-R-34-400A	PEX-a 3/4" 400 in	44	20
CALPEX-R-34-500A	PEX-a 3/4" 500 in	55	25
CALPEX-R-34-1000A	PEX-a 3/4" 1000 in	110	50
CALPEX-R-1-100A	PEX-a 1" 100 in	17.9	8.1
CALPEX-R-114-100A	PEX-a 1 1/4" 100 in	25.3	11.5
CALPEX-R-112-100A	PEX-a 1 1/2" 100 in	35	15.9
CALPEX-R-2-100A	PEX-a 2" 100 in	60	27.2

STRAIGHT LENGTH

Model#	Description	Weight	
		lb	kg
CALPEX-R-34-20AS	PEX-a 3/4" 20 in	2.5	1.13
CALPEX-R-1-20AS	PEX-a 1" 20 in	3.5	1.59
CALPEX-R-114-20AS	PEX-a 1 1/4" 20 in	5.25	2.38
CALPEX-R-112-20AS	PEX-a 1 1/2" 20 in	7.3	3.3
CALPEX-R-2-20AS	PEX-a 2" 20 in	11.9	5.4

STANDARDS AND CERTIFICATIONS

Tested and certified by NSF International (National Sanitation Foundation)

REFERENCES

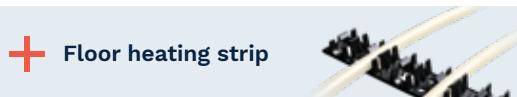
- CSA B137.5
- NSF/ANSI 14
- NSF/ANSI/CAN 61
- ASTM F876
- ASTM F877
- ASTM E84
- ASTM F2023
- ASTM F1960
- CAN/ULC S102.2

COMPLETE THE CALPEX-R

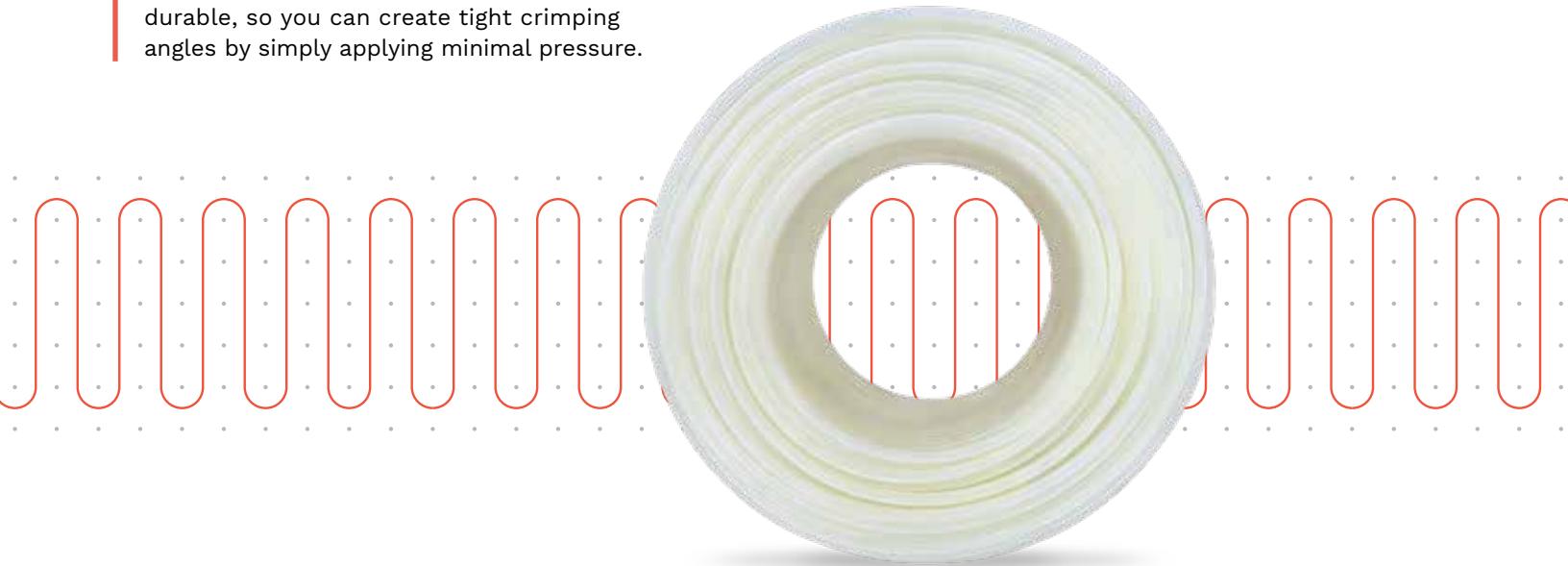
Tube uncoiler



Floor heating strip



CALPEX-R tubing is extremely flexible and durable, so you can create tight crimping angles by simply applying minimal pressure.



Caltherm Pro

Our stainless steel manifold kit comes with 1 in connection. Headers are offered in 14 models (2 to 15 loops) with a maximum flow rate of 31.5 gallons per minute (GPM).

TECHNICAL DATA

- Headers with 1 in connection
- Made of 304 stainless steel
- Pre-assembled on wall support for easy installation
- Integrated flowmeters (8 LPM/2.1 GPM per loop)
- Maximum pressure: 125 PSI/862 kPa
- Maximum temperature: 230°F/110°C
- Provided with air purger and drain
- Possibility to isolate each loop with isolating valve and balancing valve
- 2-way NPT ball valve with integrated thermometer
- Compatible with ethylene and propylene glycol up to a maximum of 50% concentration

The integrated flowmeters allow the user to adjust the flow easily in each loop. Circuit isolation valves are also compatible with 24V actuators from Calefactio (#AC24VNC).

Model#	Loops	Maximum Flow		Length (A)		Weight	
		LPM	GPM	in	mm	lb	kg
MAN2-SS100	2	16	4.2	10.8	274	7.3	3.3
MAN3-SS100	3	24	6.3	12.8	324	8.3	3.7
MAN4-SS100	4	32	8.4	14.7	374	9.2	4.2
MAN5-SS100	5	40	10.5	16.7	424	10.1	4.6
MAN6-SS100	6	48	12.6	18.7	474	11.1	5.0
MAN7-SS100	7	56	14.7	20.6	524	12.0	5.5
MAN8-SS100	8	64	16.8	22.6	574	13.0	5.9
MAN9-SS100	9	72	18.9	24.6	624	14.0	6.3
MAN10-SS100	10	80	21	26.6	674	14.9	6.7
MAN11-SS100	11	88	23.1	28.5	724	15.8	7.2
MAN12-SS100	12	96	25.2	30.5	774	16.8	7.6
MAN13-SS100	13	104	27.3	32.5	824	17.8	8.1
MAN14-SS100	14	112	29.4	34.4	874	18.7	8.5
MAN15-SS100	15	120	31.5	36.4	924	19.7	8.9



COMPLETE THE CALTHERM PRO

NEW MODEL

 **Electrothermic actuator 24V**
from Calefactio



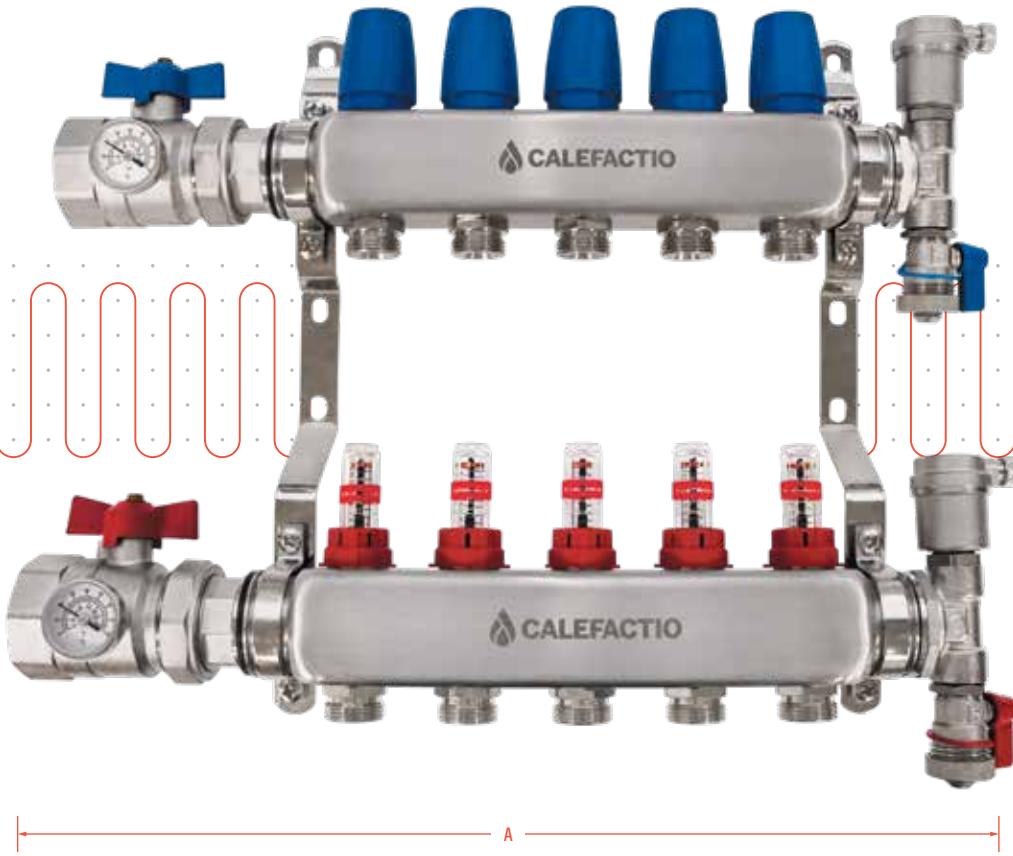
 **Manifold air pressure test kit**



MANIFOLD

Caltherm Mega

Our stainless steel manifold kit comes with 1 ½" connection
but it is also available in 1 ¼" connection.



TECHNICAL DATA

- Headers with 1 ¼ in or 1 ½ in connections
- Made of 304 stainless steel
- Preassembled on wall support for easy installation
- Integrated flowmeters (8 LPM/2.1 GPM per loop)
- Maximum pressure: 125 PSI/862 kPa
- Maximum temperature: 230°F/110°C
- Provided with air purger and drain
- Possibility to isolate each loop with isolating valve and balancing valve
- 2-way NPT ball valve with integrated thermometer
- Compatible with ethylene and propylene glycol up to a maximum of 50% concentration

Headers are offered in 14 models (2 to 15 loops) with a maximum flow rate of 31.5 gallons per minute (GPM). The integrated flowmeters allow the user to adjust the flow easily in each loop.

1 1/2" CONNECTION*

Model#	Loops	Maximum Flow		Length (A)		Weight	
		LPM	GPM	in	mm	lb	kg
MAN2-M150SS-BV150	2	16	4.2	11.2	285	8.8	4.0
MAN3-M150SS-BV150	3	24	6.3	13.2	335	9.9	4.5
MAN4-M150SS-BV150	4	32	8.4	15.2	385	11.0	5.0
MAN5-M150SS-BV150	5	40	10.5	17.1	435	12.0	5.5
MAN6-M150SS-BV150	6	48	12.6	19.1	485	13.1	6.0
MAN7-M150SS-BV150	7	56	14.7	21.1	535	14.2	6.4
MAN8-M150SS-BV150	8	64	16.8	23.0	585	15.3	6.9
MAN9-M150SS-BV150	9	72	18.9	25.0	635	16.3	7.4
MAN10-M150SS-BV150	10	80	21	27.0	685	17.4	7.9
MAN11-M150SS-BV150	11	88	23.1	29.0	735	18.5	8.4
MAN12-M150SS-BV150	12	96	25.2	30.9	785	19.5	8.9
MAN13-M150SS-BV150	13	104	27.3	32.9	835	20.5	9.3
MAN14-M150SS-BV150	14	112	29.4	34.9	885	21.6	9.8
MAN15-M150SS-BV150	15	120	31.5	37	935	22.6	10.2

1 1/4" CONNECTION*

Model#	Loops	Maximum Flow		Length (A)		Weight	
		LPM	GPM	in	mm	lb	kg
MAN2-M150SS-BV125	2	16	4.2	11.2	285	8.8	4.0
MAN3-M150SS-BV125	3	24	6.3	13.2	335	9.9	4.5
MAN4-M150SS-BV125	4	32	8.4	15.2	385	11.0	5.0
MAN5-M150SS-BV125	5	40	10.5	17.1	435	12.0	5.5
MAN6-M150SS-BV125	6	48	12.6	19.1	485	13.1	6.0
MAN7-M150SS-BV125	7	56	14.7	21.1	535	14.2	6.4
MAN8-M150SS-BV125	8	64	16.8	23.0	585	15.3	6.9
MAN9-M150SS-BV125	9	72	18.9	25.0	635	16.3	7.4
MAN10-M150SS-BV125	10	80	21	27.0	685	17.4	7.9
MAN11-M150SS-BV125	11	88	23.1	29.0	735	18.5	8.4
MAN12-M150SS-BV125	12	96	25.2	30.9	785	19.5	8.9
MAN13-M150SS-BV125	13	104	27.3	32.9	835	20.5	9.3
MAN14-M150SS-BV125	14	112	29.4	34.9	885	21.6	9.8
MAN15-M150SS-BV125	15	120	31.5	37	935	22.6	10.2

*Caltherm Mega's body is offered in 1 1/2 in. BV125 suffix means that it is connected to the system through a 1 1/4 in ball valve while suffix BV150 is connected to the system through a 1 1/2 in ball valve.

NEW & UNIQUE

2" Caltherm Tera

TECHNICAL DATA

- Connections: 2 in NPT
- Material: SS304 stainless steel
- Integrated flow meters: 12 LPM / 3.2 GPM per loop
- Integrated ball valves on each loop (supply and return)
- Maximum pressure: 125 PSI/862 kPa
- Maximum temperature: 230°F/110°C
- Compatibility: ethylene and propylene glycol up to 50%
- Includes: air vents and drains
- Available in configurations of 8, 10, or 12 loops

2" CONNECTION

Model#	Loops	Maximum Flow		Length (A)	
		LPM	GPM	in	mm
MAN8-SS200	8	96	25.6	23.9	605
MAN10-SS200	10	120	32	27.8	705
MAN12-SS200	12	144	38.4	31.7	805



A

Compression Fittings

Our compression fittings are made of brass, for increased durability. The fittings are manufactured in accordance with ASTM F1960 and ASTM F877 standards.

TECHNICAL DATA

- Material: Brass
- O-Ring: Buna-N
- Connection type: $\frac{3}{4}$ " BSPP
- Maximum temperature: 200°F (93°C)
- Maximum pressure: 160 PSI (11 bar)

Model#	Weight	
	lb	kg
FC12	0.16	0.07
FC58	0.18	0.08
FC34	0.33	0.15



Cold Expansion Rings F1960

The cold expansion ring is made of PEX-a just like our tubing Calpex-R to offer a permanent tight seal without welding. Our fittings are made with according to ANSI/NSF 14, ANSI/NSF 61, ASTM F1960 and CSA B137.5.

TECHNICAL DATA

- Use with cold expansion crimp rings F1960
- Material: Crosslinked polyethylene (PEX-a)
- Maximum temperature: 200°F (93°C)

Model#	Connection	Weight	
		lb	g
CPR12	$\frac{1}{2}$ "	0.006	2.7
CPR58	$\frac{5}{8}$ "	0.010	4.5
CPR34	$\frac{3}{4}$ "	0.012	5.4
CPR1	1"	0.020	9.1
CPR114	$\frac{1}{4}$ "	0.030	13.6
CPR112	$\frac{1}{2}$ "	0.040	18.1
CPR2	2"	0.133	60.3



Cold Expansion Fittings F1960

TECHNICAL DATA

- Material: Brass
- O-Ring: Buna-N
- Connection type: $\frac{3}{4}$ " BSPP
- Maximum temperature: 200°F (93°C)
- Maximum pressure: 160 PSI (11 bar)

Model#	Weight	
	lb	kg
FF12	0.23	0.10
FF58	0.24	0.11
FF34	0.24	0.11

Coupling and Elbow F1960

Calefactio's PPSU (polyphenylsulfone) F1960 fittings are known for their durability, resistance to chemicals, and high temperature tolerance, making them a reliable and cost effective choice for various plumbing applications.

TECHNICAL DATA

- Material: PPSU (polyphenylsulfone)
- Maximum temperature (without pressure): 160°C (320°F)
- Maximum temperature operating under pressure: 99°C (210°F) à 10.3 bar (150 PSI)



F1960 Coupling

Model#	Connection	Weight	
		lb	kg
CPLG-050	PEX $\frac{1}{2}$ "	0.01	0.006
CPLG-075	PEX $\frac{3}{4}$ "	0.02	0.009
CPLG-100	PEX 1"	0.03	0.014
CPLG-125	PEX $\frac{1}{4}$ "	0.06	0.027
CPLG-150	PEX $\frac{1}{2}$ "	0.08	0.036
CPLG-200	PEX 2"	0.23	0.105



ASTM F1960



NSF/ANSI 14
NSF/ANSI/CAN 61
NSF/ANSI 372



CAN/CSA B137.5

STANDARDS

System certificate Nr.: C0611245-01



F1960 Elbow

Model#	Connection	Weight	
		lb	kg
ELB-050	PEX $\frac{1}{2}$ "	0.01	0.005
ELB-075	PEX $\frac{3}{4}$ "	0.03	0.014
ELB-100	PEX 1"	0.05	0.023
ELB-125	PEX $\frac{1}{4}$ "	0.09	0.040
ELB-150	PEX $\frac{1}{2}$ "	0.13	0.059
ELB-200	PEX 2"	0.38	0.172



ASTM F1960



NSF/ANSI 14
NSF/ANSI/CAN 61
NSF/ANSI 372



CAN/CSA B137.5

STANDARDS

System certificate Nr.: C0611245-01

Elbows and Mounting Clips

Thanks to our rigid PVC elbows and our polyethylene mounting clips, you'll be organizing your tubing in no time, just like the pros.

ADVANTAGES

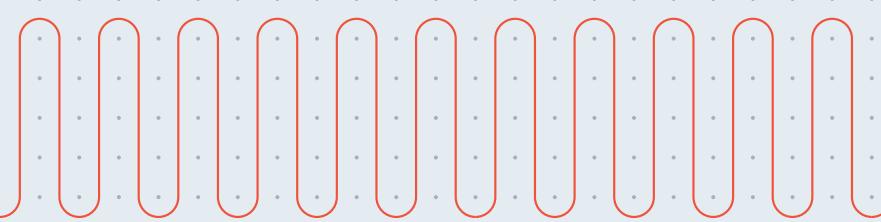
- Allows for modular and directional elbow installation
- Offers great flexibility when aligning your pipes
- Quick and easy installation on nailing base
- For a professional look and feel
- Space saving
- No special tools required
- Can be used for residential or commercial projects

Elbow

TECHNICAL DATA

- Made in PVC
- 1 elbow per package
- Use with PEX-a tubing 1/2" and 5/8"
- Can be installed with Calefactio's mounting clips (#CE-100CLIP)

Model#	Weight	
	lb	kg
CE-100 (1")	0.2	0.09



Mounting Clips

Unlike the competition, Calefactio's mounting clips allow a modular installation and directional installation. In addition, 90° elbows prevent PEX-a tubing from bending and/or crack under the concrete floor.

TECHNICAL DATA

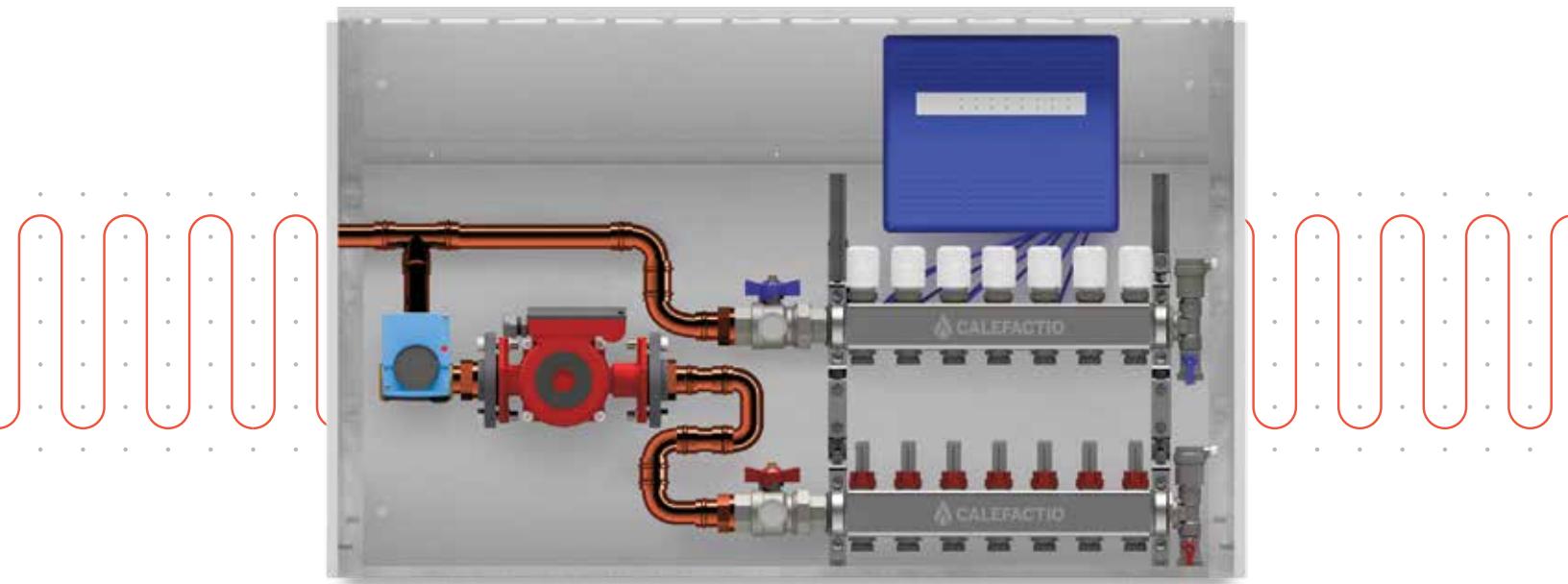
- Made in polyethylene
- Box of 15 clips, screws included (#8, 1 1/4")
- Can be installed with Calefactio's elbow (#CE-100)

Model#	Weight	
	lb	kg
CE-100CLIP	0.035	0.016



Preassembled Manifold Cabinets

Calefactio's preassembled manifold cabinets are factory tested and allow different configurations.



TECHNICAL DATA

- Designed for installation inside walls with a depth between 4" and 6".
- Depth-adjustable housing made of 18-gauge steel with a baked white enamel finish.
- Frame and door made of 18-gauge steel with a baked white enamel finish, except for model MWC52SS, which is made of stainless steel (SS304).
- Built-in lock for enhanced security.
- Included hardware: screws and safety nuts.

FEATURES

With or without pump

With or without actuators

With or without 3-way valve
(0-10 volts or 24V floating)

Cabinet

Calefactio's wall mounting cabinets offer an adjustable depth (range of 1 1/8 in or 40 mm) and are designed to hold distribution manifolds in walls of between 4 and 6 in depth.

Priorise Caltherm manifolds to facilitate wiring and adjustments.



Model#	Height		Width		Depth	Weight	
	in	mm	in	mm		lb	kg
MWC24	25 1/4	640	24	600	4 3/8 to 6 in	23.4	10.6
MWC32	25 1/4	640	32	800	110 to 150 mm	30.0	13.6
MWC40	25 1/4	640	40	1000		35.3	16.0
MWC52SS*	25 1/4	640	52	1320		43.4	19.7

*Door and frame in stainless steel (SS304).

These cabinets allow an easy access to the distribution manifold through a door that can be secured with the provided safety lock to protect the manifold while offering a clean look.

The door, frame and housing are in 18 gage steel and covered with a white baked paint.

Electrothermic Actuator 24V

With its unique feature, zones can be tested without connecting it to power, eliminating the usual several-minute wait per zone.

Its blue head allows zones to be opened manually, without electrical power, with a simple quarter turn. A real gain in time, control, and flexibility for all your radiant heating projects.

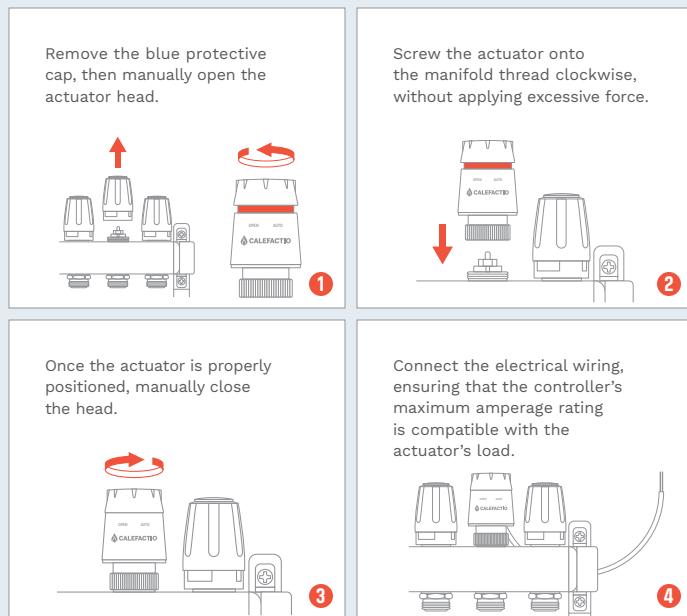
TECHNICAL DATA

- Compatible with Calefactio stainless steel manifolds
- Supply voltage: 24V
- Power consumption: 2 to 3W
- Frequency: 50 Hz
- Spindle travel time: 3 to 5 minutes
- Stroke: 3 to 5mm
- Ambient temperature: -5°C up to 60°C
- Enclosure: IP54
- Cable length: 800 to 1000 mm

Model#	Connection	Weight	
		lb	g
AC24NC	M30 x 1.5	0.28	125.5



ASSEMBLY



ACCESSORIES

Tube Uncoiler

Calefactio's tube uncoiler aids the pipe to uncoil efficiently and effectively, allowing for the pipe to be laid by a single person whilst improving the installers working conditions, and reducing labour costs.

ADVANTAGES

- Can be used with all types and sizes of underfloor heating pipes
- Can be used by a single person
- Time efficient
- Easy to use
- Improves the installer's working conditions
- Reduces labour costs

TECHNICAL DATA

- Made of black painted steel
- Minimum inner diameter of a coil: 20 cm
- Maximum outer diameter of a coil: 130 cm

Model#	Weight	
	lb	kg
Uncoiler	29,7	13,5



Floor Heating Strip

The floor heating strip is the most versatile and economical solution for the installation of radiant floor systems. The strips can be installed directly on the floor or below sub-flow. Its low thickness makes this product ideal for thin slabs on floor levels.

TECHNICAL DATA

- 20 strips per inner box
- Strip length: 39.37 in (1 meter)
- Made in plastic
- For 1/2" and 5/8" PEX tubing

Model#	Length		Width		Height		Weight	
	in	mm	in	mm	in	mm	lb	kg
FSH12	39.4	1000	1.77	45	1	24	0.55	0.25



PDBV075N

PDBV100

Pressure Differential By-Pass Valve

Model#	Description	Weight	
		lb	kg
PDBV075N	3/4" NPT, adjustable pressure	0.8	0.36
PDBV100	1", fixed pressure	1.4	0.7



PEX Cutter

Model#	Description	Weight	
		lb	kg
CUTTER	For PEX tubing until 1"	0.4	0.2



Zone Controller

Model#	Description	Weight	
		lb	kg
CTR-24V	24V	1.6	0.58

Plug

Model#	Description	Weight	
		lb	kg
PLUG-G075	G 3/4" Connection	0.08	0.04



Union

Model#	Description	Weight	
		lb	kg
CM150	Coupling manifold	0.38	0.17



Repair Fitting

Model#	Description	Weight	
		lb	kg
CG075	G 3/4" Connection	0,11	0,049

Manifold Air Pressure Test Kit

Model#	Description	Weight	
		lb	kg
MAN-APTK	G 1" Connection	0.7	0.32



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