

# **R-flex**<sup>TM</sup> insulated piping systems

R-flex is a multi-layered insulated piping system. Each R-flex coil consists of an internal fluid channel consists of cross-linked SDR-11 PEX barrier pipe, core PE foam insulation layer, and an outer double layered corrugated shell casing. The R-flex tubing is manufactured with an integral oxygen layer that prevents any oxygen diffusion through the pipe wall. R-flex is available with a Single or Dual fluid internal channel.

R-flex is available with a Single or Dual inner PEX carrier pipes with outer jacket sizes of either 125 mm, 160 mm, or 200 mm. Larger jacket size corresponds to an increased R-value.

Standard coil length of R-flex is 328 ft (100 m). Custom lengths are available.

R-flex uses a specialized compression fitting, designed to be installed using a standard torque wrench.



All sizes of R-flex use the same, unique compression design. This design requires no special tool – a standard torque wrench is all that is needed.



A Watts Water Technologies Company

[www.wattsradiant.com](http://www.wattsradiant.com)

	Metric	25 mm	32 mm	40 mm	50 mm	63 mm	75 mm	90 mm	110 mm			
	US Equivalent	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"			
Single Pipe	160 mm			81012929	81012886	81012887						
	200 mm						81012889	81012890	81012891			
Dual Pipe	125 mm	81012879	81012880									
	160 mm			81012882								
	200 mm				81012884	81012885						
				Single	Dual	Single	Dual	Single	Dual			
Maximum Coil Length	(m)	100	100									
	(ft)	328	328									
Coil Diameter	(mm)	2100	2100	2300								
	(in)	82.70	82.70	90.60								
Coil Height	(mm)	700	700	850	850	1400	850	1400	1400			
	(in)	27.60	27.60	33.50	33.50	55.20	33.50	55.20	55.20			
Coil Weight	(kg)	162	182	232	263	248	403	278	464	416	473	564
	(lb)	358	402	512	580	547	889	613	1,023	917	1,043	1,244
Bend Radius	(mm)	300	300	350	600	500	750	500	1000	550	550	600
	(in)	11.81	11.81	13.80	23.70	19.69	29.53	19.69	39.37	21.65	21.65	23.62
PEX Outside Diameter	(mm)	28.56	32	40	50	63	75	90	110			
	(in)	1.125	1.26	1.57	1.97	2.48	2.95	3.54	4.33			
PEX Wall Thickness	(mm)	3.18	2.9	3.7	4.6	5.7	6.8	8.2	10			
	(in)	0.125	0.11	0.15	0.18	0.224	0.27	0.32	0.39			
PEX Inside Diameter	(mm)	22.23	26.2	32.6	40.8	51.6	61.4	73.6	90			
	(in)	0.875	1.03	1.28	1.61	2.03	2.417	2.9	3.55			
Jacket Diameter (OD)	(mm)	125	125	160	200	200	200	200	200			
	(in)	4.92	4.92	6.30	7.87	7.87	7.87	7.87	7.87			
Insulation Thickness	(mm)	27	22.30	47.50	34.00	42.50	46.00	37.00	33.00	52.00	44.00	34.00
	(in)	1.11	0.88	1.88	1.34	1.68	1.81	1.46	1.30	2.05	1.74	1.33
Insulation R-value	BTU/hr/ft <sup>2</sup> /°F	4.01	3.18	6.79	4.84	6.07	6.57	5.27	4.69	7.40	6.28	4.84

1" R-flex is the only size manufactured to ASTM F-876/F-877. All other sizes of R-flex are manufactured to DIN 16892 /16893.

