

For Residential or Commercial Radiant Heating, Cooling, and Snow Melt Applications

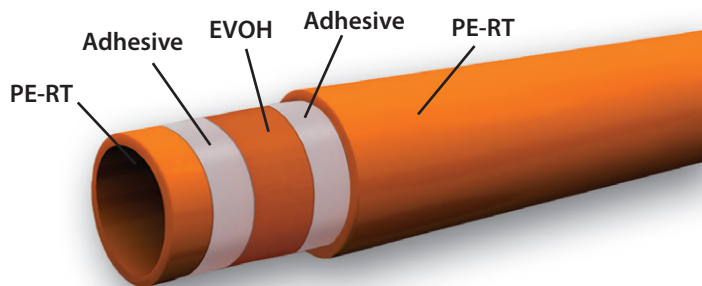
Job Name _____
 Job Location _____
 Engineer _____
 Approval _____

Contractor _____
 Approval _____
 Contractor's P.O. No. _____
 Representative _____

RadiantPERT™ Tubing

Sizes: 3/8" (9.5 mm) 1/2" (12.7 mm)
 5/8" (15.9 mm) 3/4" (19.1 mm)
 1" (25.4 mm)

Watts Radiant's RadiantPERT is a 5-layer PE-RT (polyethylene raised temperature) tubing used for radiant heating, cooling, snowmelting, and distribution piping. RadiantPERT is manufactured with an integral ethylene vinyl alcohol (EVOH) DIN Standard O2 barrier that limits oxygen diffusion through the walls of the tubing to less than 0.10g/m3/day at 104°F (40°C) water temperature. RadiantPERT offers a protective PE-RT layer over the EVOH oxygen barrier.



Specifications

Operating Temperature & Pressure	
Max. Temperature	Max. Pressure
180°F (82.2°C)	80 psi (5.5 bar)
73.4°F (22.7°C)	160 psi (11.0 bar)

System shall be installed using Watts Radiant RadiantPERT tubing. All connections shall be made using Watts Radiant's CinchClamp, CrimpRing, Compression, or F1960 cold expansion fittings of corresponding size and in accordance with all corresponding installation guidelines.

Features

RadiantPERT offers improved cold-weather flexibility with reduced recoil affect. A wide range of sizes and coil lengths offer greater application coverage and improved installation performance.

Codes Listings and Standards

- Certified to ASTM F2623 for Polyethylene of Raised Temperature (PE-RT) SDR 9 Tubing by NSF and CSA
- Rated at 73°F @ 160psi and 180°F @ 80psi
- Tested and listed to Standard NSF-14(rfh)
- Certified to the Uniform Mechanical Code by NSF
- Compatible with fittings manufactured and certified to ASTM Standard F1807, F2159, and F1960.

Standards ASTM INTERNATIONAL <small>Standards Worldwide</small>	 PLASTICS PIPE INSTITUTE®	Listings NSF® rfh U.M. Code	 CSA US
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RadiantPERT Tubing Specifications							
Qty	Model #	Description in. (mm)	Nominal I.D. in. (mm)	Nominal O.D. in. (mm)	Stick and Coil Lengths ft. (m)	Min. Bend Radius in. (mm)	Fluid Capacity (Gal/100')
	PTO32061	3/8 (9.5) RadiantPERT	0.35 (8.9)	.5 (12.7)	600 (182.9)	2.5 (63.5)	0.53 (2.4 l)
	PTO32081	1/2 (12.7) RadiantPERT	0.475 (12.1)	.625 (15.9)	300 (91.4) / 1000 (304.8)	3.125 (79.37)	0.96 (4.4 l)
	PTO32101	5/8 (15.9) RadiantPERT	0.574 (14.6)	.750 (19.0)	20 (6.1) / 100 (30.5) / 300 (91.4) 500 (152.4) / 1200 (362.8)	3.75 (95.25)	1.39 (6.3 l)
	PTO32121	3/4 (19.1) RadiantPERT	0.671 (17.0)	.875 (22.2)	20 (6.1) / 100 (30.5) / 300 (91.4) 500 (152.4) / 1000 (305.0) / 1200 (362.8)	4.375 (111.12)	1.89 (8.6 l)
	PTO32161	1 (25.4) RadiantPERT	0.863 (21.9)	1.125 (28.6)	20 (6.1) / 300 (91.4)	5.625 (142.87)	3.12 (14.2 l)

CAUTION
 This Engineering Sheet is not intended to provide full installation instructions and safety information. In order to avoid property damage or injury, please refer to the complete installation manual and product safety information provided with the product.



Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Radiant Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.



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