



enclosing liquids with innovation

Westfälische Rohrwerke



## Cooling technique

### Multilayer Composite Pipe

PE-RT/AL/PE-RT,  $\varnothing$  12 - 32 mm

- Air Condition



### Special features:

- high dimensional stability
- 100% oxygen tight
- minimal thermal expansion
- low weight
- tested according to ASTM 1282, ICC II listed
- outstanding laying properties
- developed for cooling liquid
- cooling liquid R22 | R32 | R134 a | R404 a | R407 c | R410 a | R507
- corrosion-resistant

## Data (depending on nominal size)

$d_n \times e_n$	$d_e$	$d_i$	$e$	weight	coil length	quantity liquid	weight filled with water
[in.] [mm]	nominal size	nominal size	nominal size	[g/m]	[m]	[l/m]	[g/m]
	[mm]	[mm]	[mm]	[g/ft]	[ft]	[l/ft]	[g/ft]
1/4" (12 x 2,5)	12	7	2,5	88,59	15,24 - 310,89	0,039	88,626
				27,00	50 - 1020	0,012	27,012
3/8" (14 x 2,5)	14	9	2,5	104,99	15,24 - 310,89	0,062	105,054
				32,00	50 - 1020	0,019	32,019
1/2" (16 x 2,5)	16	11	2,5	127,96	15,24 - 310,89	0,010	127,969
				39,00	50 - 1020	0,029	39,029
5/8" (18 x 2,75)	18	12,5	2,75	150,93	15,24 - 310,89	0,121	151,047
				46,00	50 - 1020	0,037	46,037
3/4" (20 x 2,75)	20	14,5	2,75	223,11	15,24 - 310,89	0,164	223,272
				68,00	50 - 1020	0,05	68,050
7/8" (25 x 3,25)	25,5	18,5	3,25	337,94	15,24 - 188,98	0,269	338,212
				103,00	50 - 620	0,082	103,082
1 1/8" (32 x 3,75)	32	24,5	3,75	413,41	15,24 - 188,98	0,469	413,875
				126,00	50 - 200	0,143	126,143

Other dimensions and lengths possible upon request.

## Technical data

Type of pipe	1/4" (12 x 2,5) 3/8" (14 x 2,5) 1/2" (16 x 2,5) 1/2" (16 x 2,5) 5/8" (18 x 2,75) 3/4" (20 x 2,75) 7/8" (25 x 3,25)	1 1/8" (32 x 3,75)
Thermal conductivity in W/m*K	0,42	0,42
Thermal coefficient of expansion mm/m*K	0,025	0,025
Oxygen diffusion in mg/l*d	0,000	0,000
Max. operating temperature in °C / °F	95°C / 203°F	95°C / 203°F
Max. operating pressure <sup>(1)</sup> in bar/psi	45bar / 650psi	40bar / 580psi
Max. malfunction temperature in °C / °F	110°C / 230°F	110°C / 230°F
Bending radius in mm	8 x de	8 x de

All values are to be considered as guidelines. This is subject to technical modifications.

<sup>(1)</sup>25 years maximum load period

## Contact

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