



TECHNICAL INFORMATION

Material	Standard:	steel tubes with air-relief valve G 3/8" Ø 32 × 2,0 × Ø 92 mm, lead of spiral 10 mm Ø 57 × 2,5 × Ø 137 mm, lead of spiral 18 mm Ø 76 × 2,5 × Ø 156 mm, lead of spiral 20 mm width of steel fins 0,8mm
	Stainless steel, Hot-dip galvanized:	per order, see page 21
Connection threads	inner G1/2"	
Lenghts	500 mm–6 000 mm (with step of 100 mm)	
Operating conditions	Hot water system:	forced circulation
	Max. operating temperature:	120 °C
	Operating overpressure:	1,0 MPa
	Test overpressure:	1,3 MPa
	The radiator is designed for ambient temperature from 2 to 40 °C and relative humidity from 20 to 70 °C.	
Colour	snow white RAL 9016, white RAL 9010; colours based on the RAL colour card (extra charge)	
Atypical design options	Connection threads G3/4", G3/8", G1"	
	Lead of spiral from 10–30 mm (12–30 mm) with step 2 mm	
	Loose ends can also be used for gravity circulation. Everything based on the customer's approved technical documentation.	

TABLE OF DIMENSIONS

RAT3 - S	Dimensions [mm]												
	A	B	C	D	E	F	G	H	I	J	K	L	M
Ø 32 × 2,0 × Ø 92 mm	500–6000	402	32	92	10	A-130	65	16	146	105	76	56	≥60
Ø 57 × 2,5 × Ø 137 mm	500–6000	489	57	137	18	A-220	110	28	169	146	130	110	≥85
Ø 76 × 2,5 × Ø 156 mm	500–6000	588	76	156	20	A-240	120	38	178	166	130	110	≥95

Note: Ø 32 × 2,0 × Ø 92 [mm] – diameter of tube × thickness × diameter of winding [mm]

HEATING OUTPUTS

RAT3-S	TEMPERATURE GRADIENT	LENGTH [mm] / OUTPUT Q [W]							
		500	1000	1500	2000	2500	3000	4000	6000
Ø 32×2,0×Ø 92 mm	90/70/20 °C	539	1331	2129	2820	3511	4151	5581	8420
	75/65/20 °C	425	1050	1680	2225	2770	3275	4404	6643
	70/55/20 °C	344	850	1360	1801	2242	2651	3565	5378
	55/45/20 °C	219	540	865	1145	1426	1686	2267	3419
Ø 57×2,5×Ø 137 mm	90/70/20 °C	584	1483	2382	3318	4171	5133	6990	10449
	75/65/20 °C	461	1170	1879	2618	3291	4050	5515	8244
	70/55/20 °C	373	947	1521	2119	2664	3279	4465	6674
	55/45/20 °C	237	602	967	1348	1694	2085	2839	4244
Ø 76×2,5×Ø 156 mm	90/70/20 °C	607	1503	2399	3351	4265	5185	7066	10567
	75/65/20 °C	479	1186	1893	2644	3365	4091	5575	8337
	70/55/20 °C	388	960	1532	2140	2724	3312	4513	6749
	55/45/20 °C	247	610	974	1361	1732	2106	2870	4291

Note: Temperature exponent n=1,3

Hot-dip galvanized surface treatment reduces heating output by ~10 %, stainless steel by ~35 %.

VOLUME OF WATER AND WEIGHT

RAT3-S	Length X [mm]	500	1000	1500	2000	2500	3000	4000	5000	6000
Ø 32×2,0×Ø 92 mm	Weight [kg]	7,3	15,6	23,8	31,9	40,0	48,1	65,9	83,7	101,5
	Volume [l]	1,3	2,2	3,2	4,0	5,0	5,9	7,8	9,6	11,5
Ø 57×2,5×Ø 137 mm	Weight [kg]	15,0	29,0	45,0	67,0	76,0	91,0	121,0	151,0	181,0
	Volume [l]	4,3	7,4	10,5	13,5	16,6	19,7	25,8	31,9	38,0
Ø 76×2,5×Ø 156 mm	Weight [kg]	19,4	36,8	53,7	70,7	87,8	105,0	136,0	170,9	205,7
	Volume [l]	8,3	14,0	19,8	25,6	31,4	37,2	48,7	60,3	71,8

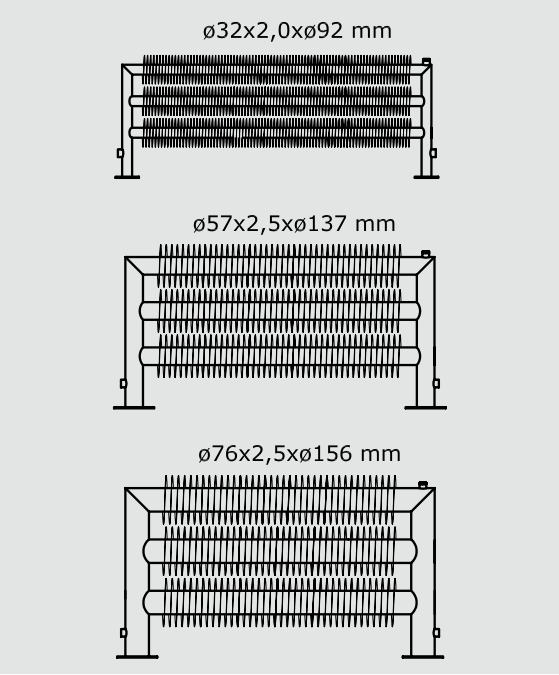
Note: Radiator weight without heating fluid

CODE EXAMPLE

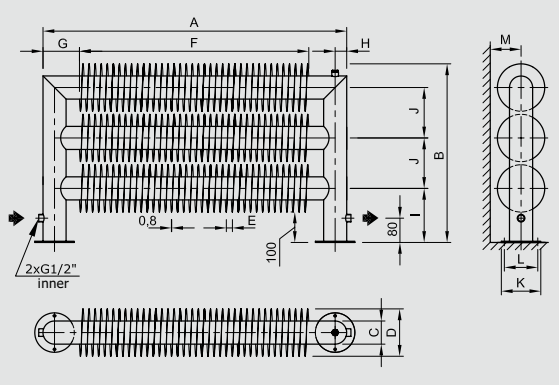
ZRAT3	57	137	100	S	01
SPIRAL type	Ø tube [mm]	Ø winding [mm]	length [cm]	self-standing	colour code

Ordering, see the page 22

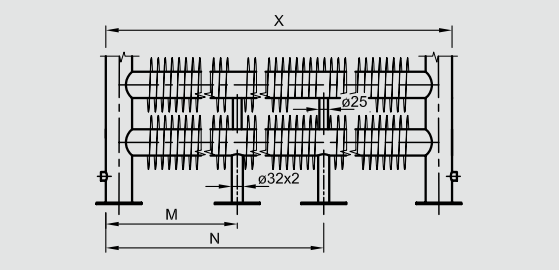
BASIC TYPES



SKETCH



SUPPORTING ELEMENTS



RAT3-S (Ø 32 mm)

length of spiral X [mm]	M	N	Number of legs
500–2900	0	0	2 pcs
2901–4500	X/2	0	3 pcs
4501–6000	1/3 X	2/3 X	4 pcs

RAT3-S (Ø 57 mm a Ø 76 mm)

length of spiral X [mm]	M	N	Number of legs
500–3000	0	0	2 pcs
3001–4500	X/2	0	3 pcs
4501–6000	1/3 X	2/3 X	4 pcs