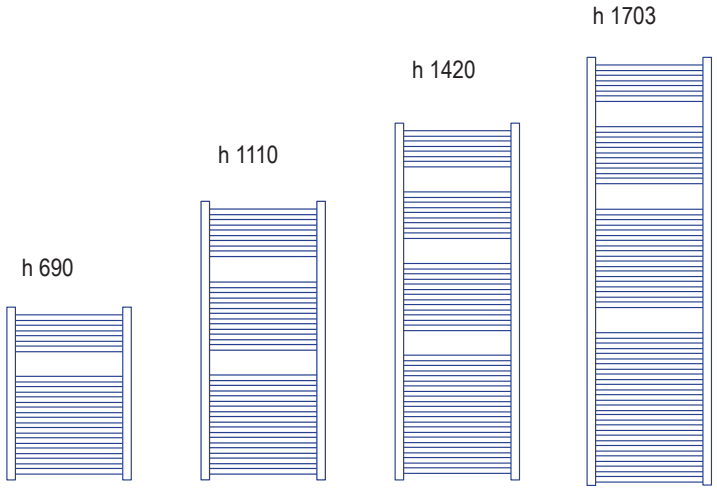
GARDENIA

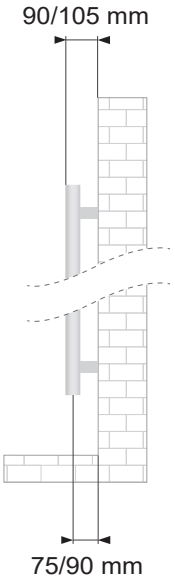
Technical sheet

EN 442 EURONORM CE



Material	carbon steel
Pipes - Ø	22x0,9
Collectors - mm	30x40x1,2
Connections	3x1/2' *
Wall fixings	3
Max pressure	10 bar
Max temperature	90 °C
Paint	epoxypolyester powder
Packaging	P.P. corners + carton box + external nylon shrink wrap
* **air bleeding valve connection, included**	

Standard equipment: 1 kit wall fixing brackets - 1 air bleeding valve



White RAL 9016 - straight

code	height mm	width mm	interaxis mm	weight kg	water lt	ΔT50°C watt ϕ 75/65/20°	ΔT42,5°C watt ϕ 70/55/20°	ΔT30°C watt ϕ 55/45/20°	ΔT 60°C btu	heating element watt	ΔT 50° C exponent n
8444	690	500	450	4,7	3,2	344	283	185	1468	300	1,22217
21155	690	600	550	5,4	3,7	386	317	207	1648	300	1,22016
8445	1110	500	450	7,9	5,0	512	419	272	2194	500	1,24306
21156	1110	600	550	9,1	5,6	599	490	318	2566	700	1,2452
8446	1420	500	450	10,0	6,3	669	547	354	2870	700	1,24908
21157	1420	600	550	11,4	7,2	784	641	415	3361	700	1,24813
8447	1703	500	450	12,4	7,9	802	655	424	3440	700	1,24973
21158	1703	600	550	14,3	8,9	940	768	498	4027	1000	1,24563

Chromed - straight

code	height mm	width mm	interaxis mm	weight kg	water lt	Δt50°C watt ϕ 75/65/20°	Δt42,5°C watt ϕ 70/55/20°	Δt30°C watt ϕ 55/45/20°	Δt 60°C btu	heating element watt	Δt 50° C exponent n
8448	690	500	450	7,8	5,0	224	184	120	959	200	1,2367
8449	1110	500	450	9,8	6,3	353	288	186	1515	300	1,25644
8450	1420	500	450	12,2	7,9	457	372	239	1969	500	1,27543
8451	1703	500	450	13,5	7,8	544	442	282	2351	500	1,28946

B-Nickel - straight

code	height mm	width mm	interaxis mm	weight kg	water lt	Δt50°C watt ϕ 75/65/20°	Δt42,5°C watt ϕ 70/55/20°	Δt30°C watt ϕ 55/45/20°	Δt 60°C btu	heating element watt	Δt 50° C exponent n
77741	1110	500	450	7,8	5,0	473	385	247	2037	500	1,27145
77754	1420	500	450	9,8	6,3	611	500	324	2618	700	1,24489
77755	1703	500	450	12,2	7,9	754	615	397	3235	700	1,25527

Our radiators are tested in qualified laboratories according to EN-442 regulations which determine the ouput value by fixing the Δt at 50° C. Δt is the difference between the average temperature of the water inside the radiator and the room temperature. The formula is: $(((T_1+T_2)/2)-T_3)$.
Ex.: ((75+65/2)-20)= 50° C. For output values with a different Δt use the following formula: $\phi_x = \phi_{\Delta t50} *(\Delta t_x/50)^n$.
See calculation example of the output at Δt 60° of article 8444: $344*(60/50)^{1,22217}= 430$.
Output values in kcal/h = watt x 0,85984. Output values in btu = watt x 3,412.

LEGEND

T_1 = supply temperature - T_2= return temperature - T_3= room temperature.
ϕ_x = output to be calculated - $\phi_{\Delta t50}$ = output at Δt 50° C (table) - Δt_x = Δt value to be calculated - ^{n} = exponent "n" (table).

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