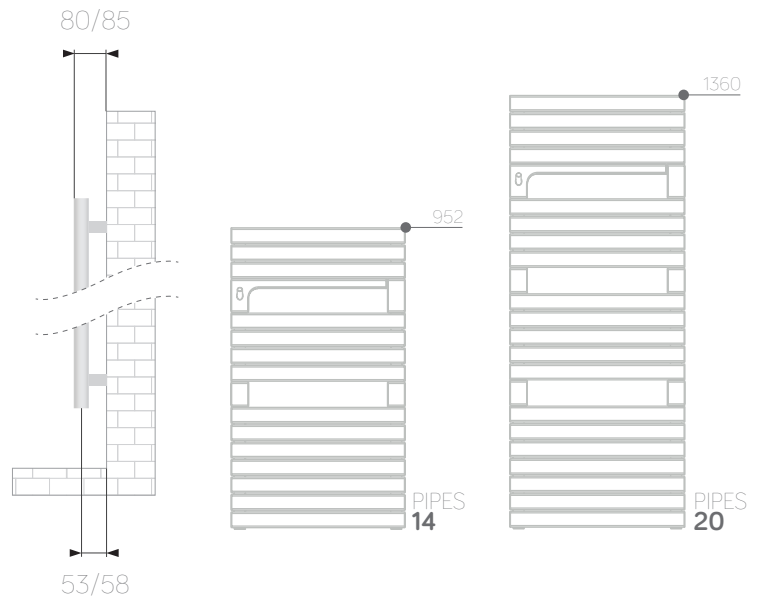


# Torino

Technical sheet



**K** DUAL-FUEL USE



Material	carbon steel
Pipes- mm	50x10x1,5
Collectors - Ø	35x1,5
Connections	4x1/2 (air bleeding valve connection, included)
Wall fixings	4
Max pressure	4 bar
Max temperature	90 °C
Paint	epoxypolyester powder
Packaging	cardboard box + cardboard and styrofoam protections + polyethylene foam sheet

**Standard equipment:** 1 kit wall fixing brackets - 1 air bleeding valve - 1 blind plug - 2 chromed caps for blind plug and air bleeding valve

## White VOV09

code	h (mm)	width (mm)	pipe centre (mm)	weight (kg)	water (lt)	ΔT50 °C (watt)	ΔT30 °C (watt)	ΔT42,5 °C (watt)	ΔT60 °C (watt)	exponent n	heating element (watt)
383747	952	550	495	13,2	3,8	510	274	419	637	1,21547	600
383748	1360	550	495	18,6	5,3	715	381	586	896	1,23285	600

## Anthracite VOV12

code	h (mm)	width (mm)	pipe centre (mm)	weight (kg)	water (lt)	ΔT50 °C (watt)	ΔT30 °C (watt)	ΔT42,5 °C (watt)	ΔT60 °C (watt)	exponent n	heating element (watt)
383749	952	550	495	13,2	3,8	510	274	419	637	1,21547	600
383750	1360	550	495	18,6	5,3	715	381	586	896	1,23285	600

## Quartz VOV15

code	h (mm)	width (mm)	pipe centre (mm)	weight (kg)	water (lt)	$\Delta T_{50} \text{ }^{\circ}\text{C}$ (watt)	$\Delta T_{30} \text{ }^{\circ}\text{C}$ (watt)	$\Delta T_{42,5} \text{ }^{\circ}\text{C}$ (watt)	$\Delta T_{60} \text{ }^{\circ}\text{C}$ (watt)	exponent n	heating element (watt)
383751	952	550	495	13,2	3,8	510	274	419	637	1,21547	600
383752	1360	550	495	18,6	5,3	715	381	586	896	1,23285	600

Our radiators are tested in qualified laboratories according to EN-442 regulations which determine the output value by fixing the  $\Delta T$  at 50 °C.  $\Delta T$  is the difference between the average temperature of the water inside the radiator and the room temperature. The formula is:  $\left(\frac{T_1+T_2}{2}\right)-T_3$ .

Ex.:  $\left(\frac{75+65}{2}\right)-20=50$  °C. For output values with a different  $\Delta T$  use the following formula:  $\phi_x = \phi_{\Delta T_{50}} * (\Delta T_x / 50)^n$ .

See calculation example of the output at  $\Delta T$  60 °C of article 383747:  $510 * (60/50)^{1,21547} = 637$ .

Output values in kcal/h = watt x 0,85984. Output values in btu = watt x 3,412.

### KEY

$T_1$  = supply temperature -  $T_2$  = return temperature -  $T_3$  = room temperature.

$\phi_x$  = output to be calculated -  $\phi_{\Delta T_{50}}$  = output at  $\Delta T$  50 °C (table) -  $\Delta T_x = \Delta T$  value to be calculated -  $n$  = exponent "n" (table).