

Technical data:

Name	ČAROBNA HYDRO
Use	Fireplace stove for heating with integrated boiler
Nominal power [kW]	13,16
Nominal power given to water	7,12
Space heat output	6,04
Efficiency [%]	81,25
Fuel	Wood, wood briquettes
Dimensions of stove WxLxH [mm]	430x464x823
Dimension of the fireplace WxLxH [mm]	340x300x285
Weight [kg]	110
Minimum distance from flammable materials [mm]	
Back	500
Side	500
Front	800
Content CO (reduced on 13% O ₂) [%]	0,091
Chimney connection [mm]	Ø120
Chimney connection position	Central on upper plate
Fuel consumption on nominal power [kg/h]	4,5
Emission temperature [°C]	247
Air regulation	
Primary	Manual control
Secondary	Manual control
Boiler water capacity [l]	10
Required draft [Pa]	12-15

Hydro stove with back boiler are intended for heating residential space. An integral part of the installation is a temperature safety relief valve for thermal discharge that serves as thermo safety of possible overheating. It is recommended "Caleffi 544 ½" shown in Figure 2

Function:



Fig 2.

Drain valve for thermal protection limits the water temperature. They are intended for cooling of heating hot water when the temperature reaches the limit of 95 C. If the probe is immersed in the hot water outlet from the boiler registers the increase in temperature gives a signal to open the valve to the cold water from the local installation introduced into the system and cools it until the excess hot water goes to the drain.

They are intended for installation in systems where it is not possible to install the valve directly to the boiler body (not exist without heat exchanger)