

## ELECTRICALLY HEATED WATER STILLS MODELS: DEM-11, DEM-20

### APPLICATION

The water still is designed for purification of water from dissolved mineral salts and gases by distillation.

It is used in laboratories and health service centres.

### DESIGN

The water still is free-standing apparatus intended for continuous operation. All parts being in contact with water or steam are made of brass or copper and coated with pure tin. In the cooler of the water still, a dephlegmator is fixed in order to protect the distillate against unevaporated water particles. The water still is equipped with a flow controller which keeps the water supply on the level that makes the lowest water consumption

possible together with nominal performance of the distillate. The water still is also equipped with safety devices which protect apparatus against damage in case of any disturbance in water supply:

- pressure sensor that cuts off the power if the water supply pressure drops below the pressure level-indispensable for correct performance of the apparatus
- water level sensor that cuts off the power if the water level in boiler is lowered.

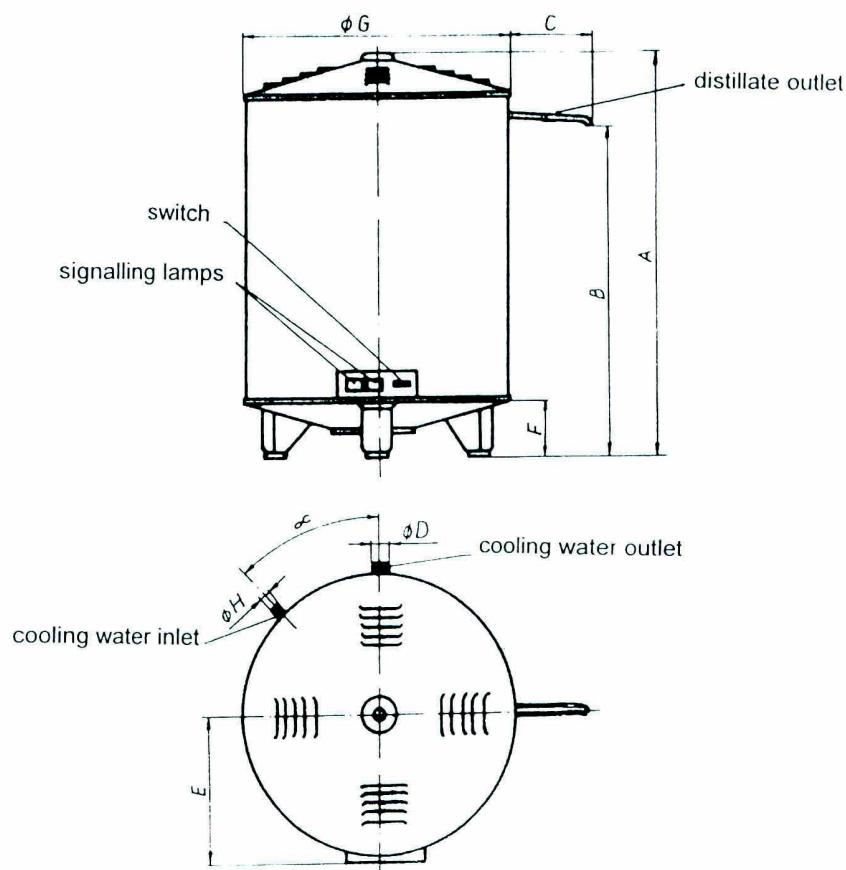
### PRINCIPLE OF OPERATION

Raw water from the supply system - preheated while flowing through the cooler - fills up the boiler to a certain level and the excessive amount is discharged outside. Under the influence of heat, water rapidly turns into steam. The steam produced in the boiler is condensed in the cooler and then discharged outside as distillate.



## TECHNICAL CHARACTERISTICS

	DEM 11	DEM 20A
Protection Cl.	I	I
Output	ab. 10 dm <sup>3</sup> /h	ab. 18 dm <sup>3</sup> /h
Consumption of water	ab. 150 dm <sup>3</sup> /h	ab. 220 dm <sup>3</sup> /h
Power consumption	7.2 kW	12 kW
Supply voltage	3 x 380 V	3 x 380 V
Mass	14 kg	18 kg



Outer Dimensions

Model	A	B	C	D	E	F	G	H	$\alpha$
DEM 11	545	405	160	16	200	75	382	10	45°
DEM 20	655	543		22					

## ORDERING

While ordering you should state the name and model of the water still.



Manufacturer:

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