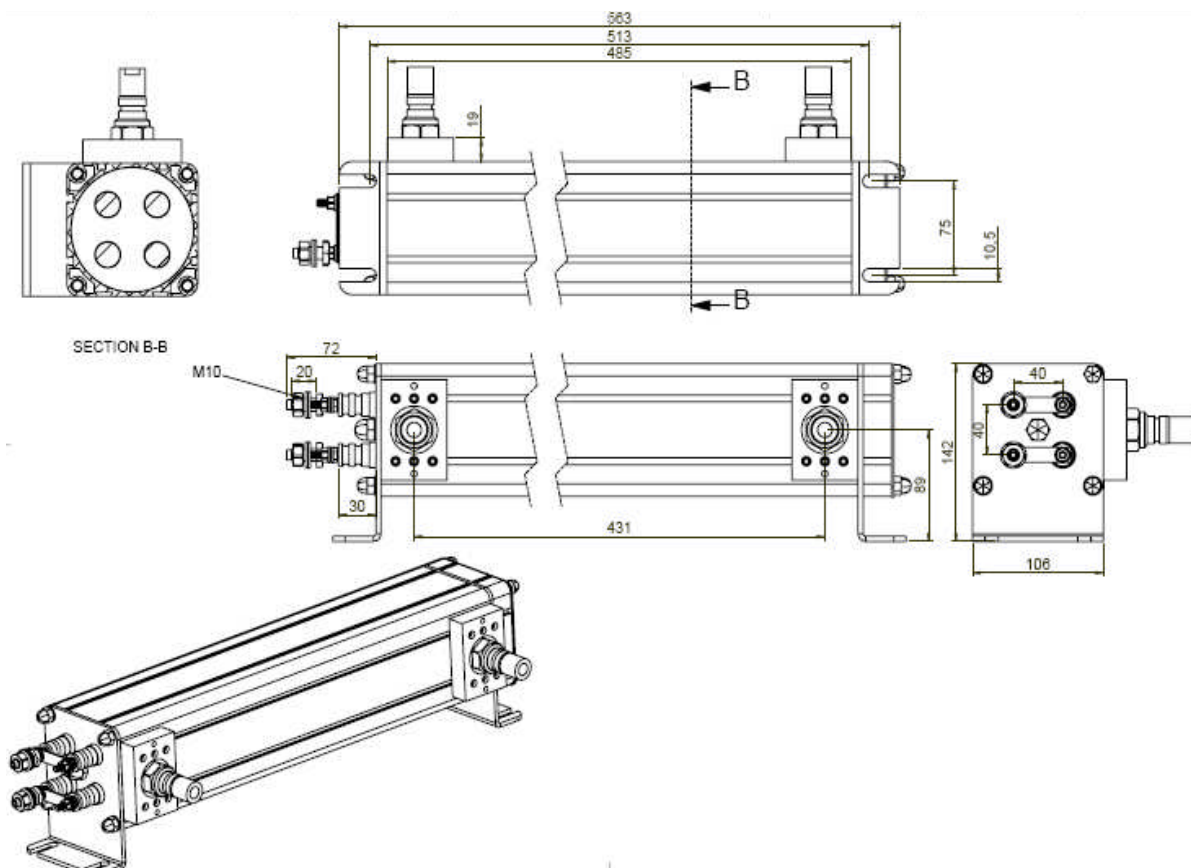




WATER COOLED POWER RESISTOR STYLE WHB20.485-4 8KW



1. FOREWORD

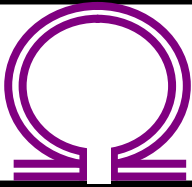
High power resistor studied to be employed with water as cooling medium. Deionised water is not necessary

Inside the resistor box there are 4 different resistors that may be connected in accordance with the application.

1.1. ELECTRICAL CHARACTERISTICS

Characteristics	WHB 20.485-4
Power rating (Pr)	8.000 W
Max applicable Power (continuous)	10.000 W
Adiabatic Energy	200 kJ
Length of impuls >0,5 sec	
Max Overload for 5 sec.	60.000 W
Resistance value	1 Ω
Resistance tolerance	±5%
Temperature Coefficient	100 ppm/°K
Limit element voltage	1.500 V
Dielectric strength @ 50 Hz for 1min.	8.500 Vrms
Insulation resistance @ 5000V _{DC}	≥1000 MΩ





1.2. FEATURE CHARACTERISTICS

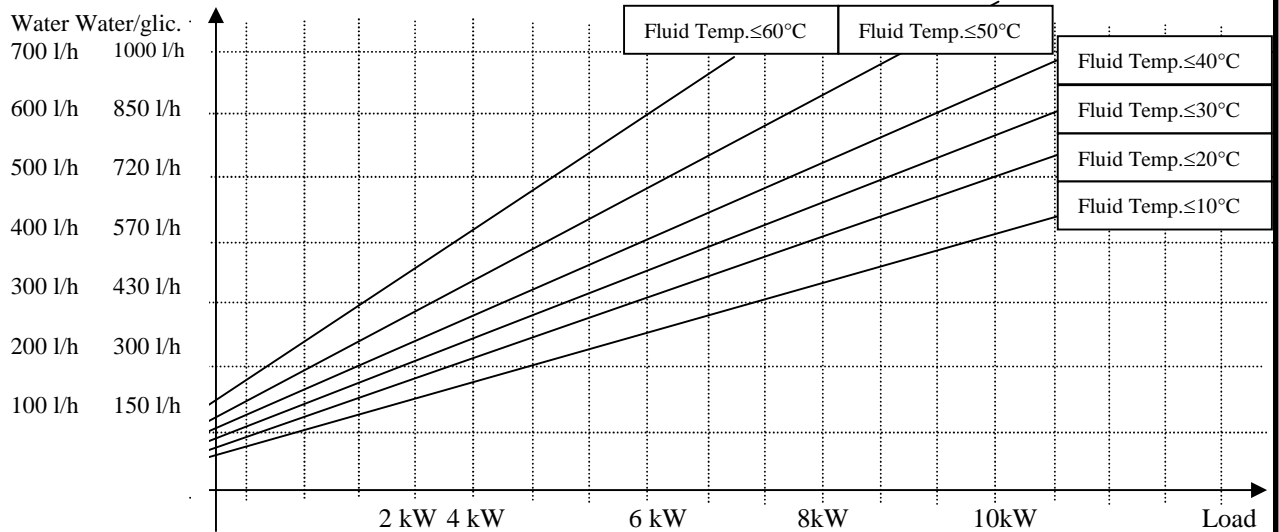
Characteristics	WHB 20.485-4
Protection degree	IP00
Weight (without water)	≅ 3900 g
Water contents	≅ 2,7 l
Connections	2 M10 screws

1.3. COOLING CHARACTERISTICS

Characteristics	WHB 20.485-4
Cooling fluid	Water-glicol
Cooling flow rate	See the graph
Cooling fluid pressure drop (Evaluated @ 15 l/min)	≅ 0,3bar
Operating pressure	≤ 6 bar @ 65°C
Pressure Test	10 bar @ 20°C for 24 H

4. FLOW RATE OF THE COOLING FLUID

Water flow related to applied power and fluid temperature



5. CONNECTION WITH THE COOLING SYSTEM

The resistor is supplied with two Nippels Stäubli Nr.01137302. The water outlet should be in the higher point to avoid the formation of air bubbles in the water circuit.

Other types of water connection are available on request

