

Type series WPAZQ..



Technologies

- very compact design
- high degree of protection IP 54
- very low excess of surface temperature (<40K)
- designed for water cooling by industrial water and almost any standard cooling liquid (dirt particles ≤ 1mm)
- max. working pressure 4 bar (test pressure 10 bar)
- max. drop of pressure 0,5 bar
- with temperature switch

Construction

Power resistor:

Electrical connection at terminals 16-95mm² (depending on design) in terminal box incl. cable gland up to M50.

Cooling:

The integrated Cu-tubes are for industrial water and almost any standard cooling liquids or oils – not for aggressive liquids, sea water or demineralized water.

Water connection at 1 ¼ inch thread for max. 3600 litre/hour. Maximum "In-Water" +30°C, maximum "Out-Water" +45°C.

Application

An important application is the use as internal load resistor or as brake resistor. The big advantage is the excellent transport of heat by the integrated cooling water connection.

Special design

- Mounting and connection material out of stainless steel
- with additional PT100 element
- integrated into switch cabinet

10 – 40 kW, IP 54, water cooled, with terminals and terminal box



Wire wound flat type resistors in protection degree IP 54 in aluminium enclosure, combined with water cooler with integrated Cu-tubes. Electric wiring on terminals in attached terminal box. Cooling connection on two pipe connections 1 ¼ inch (DIN ISO 228).

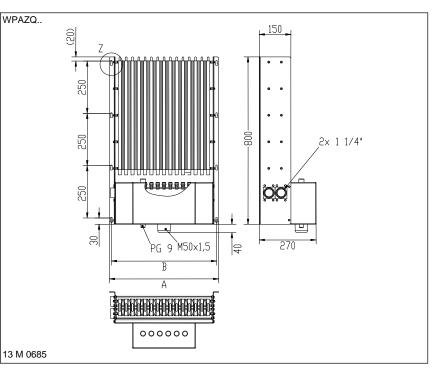
Electrical and mechanical data

type series	continuous	necessary	production		dimensions		approx.
	dissipation in	flow of	range		in mm		weight
	kW for cold "In-	cooling liquid	Ω-value				in kg
	Water" of 20°C	in litre / h at a					
	at 100%ED and	"Out-Water"					
	a max. surface	temperature	from up to	un to	А	В	
	excess	rise of 12K		up io			
	temperature of						
	30 K						
WPAZQ90404	10	900	4,5	2,7 k	220	200	25
WPAZQ90604	15	1350	3,0	3,3 k	280	260	33
WPAZQ90804	20	1800	2,3	3,9 k	340	320	40
WPAZQ91004	25	2250	1,8	4,7 k	400	380	48
WPAZQ91204	30	2700	1,5	5,6 k	460	440	55
WPAZQ91404	35	3150	1,3	6,8 k	520	500	63
WPAZQ91604	40	3600	1,2	8,2 k	580	560	70

The given power rating values are valid for 100%CD (continuous dissipation). For short time operation you will find the values in the following table as a function of the duty cycle factor (DCF). Just multiply by the corresponding overload factor (OLF).

DCF	60%	40%	25%	15%	6%	
OLF	1,2	1,6	2,2	3,1	5,5	

These overload factors are valid for a total cycle time of maximum 120 s



FRIZLEN GMBH U. CO KG. Subject to alteration