



- The operation of the conditioner is based on cooling or heating of liquid fluid in the working circuit by the use of thermoelectric cooling modules.

- Areas of application:

transport comfort conditioner, systems of cooling, thermal protection and thermostating of radioelectronic equipment. Owing to lack of moving parts and freon coolants the conditioners are indispensable to ecologically pure conditioning system production.

Thermoelectric conditioner appearance



Conditioner consists of heat exchangers, working circuit, thermoelectric cooling modules, system of heat sink and fluid circulation. Power consumption is from the side circuit of the transport facilities or dc power battery.

PARAMETERS:

Cooling performance (Q_0), kW, no less than	3.0
Heating performance (Q), kW, no less than	3.0
Temperature difference (T_1-T_2) between of working and auxiliary circuits	25
Flow rate of fluids in the both circuits (G), 1/h	3000
Power consumptions is from the dc power supply voltage, V	27
Overall dimensions, mm, no more than	230x250x500

Dependence of temperature difference on cooling performance and electric power consumption (W)

Q_0 , kW	Power consumption (W), kW					
	0,3	0,6	1,2	1,8	2,4	3,0
0	12	21	36	44	49	52
0,6	5	14	29	37	43	45
1,2	0	14	26	35	40	42
1,8	-	0	17	27	33	35
2,4	-	-	13	24	30	32
3,0	-	-	8	18	24	27

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