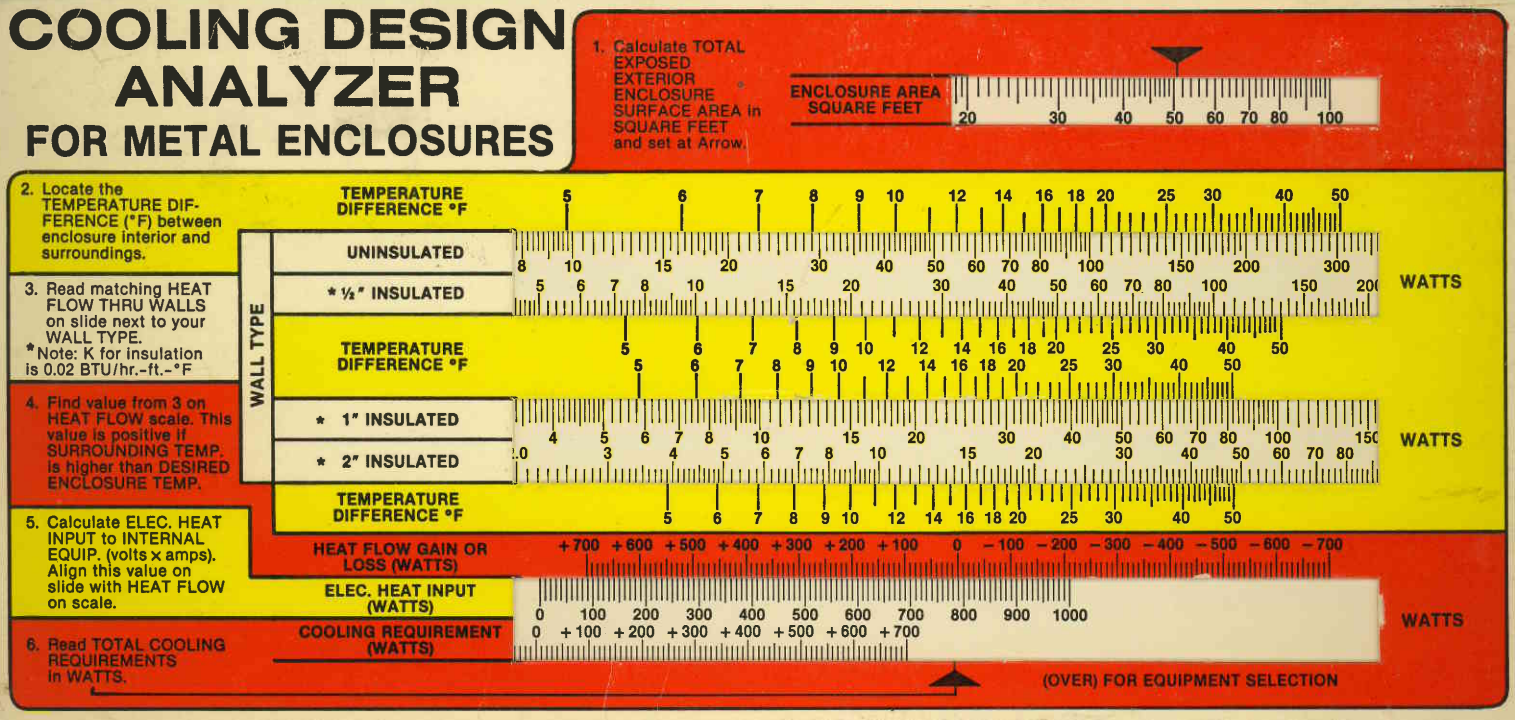
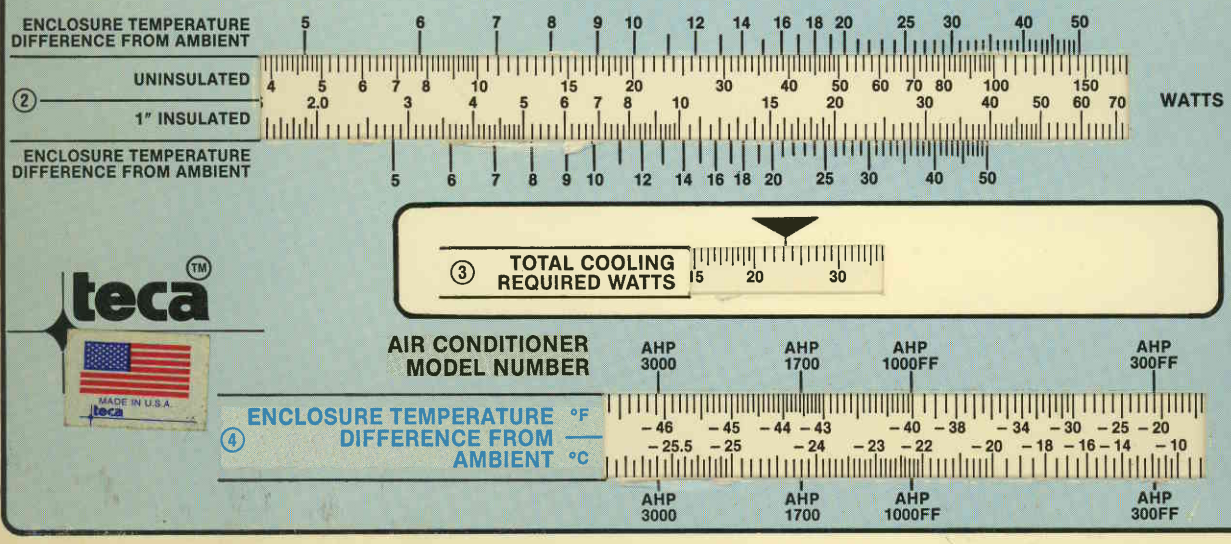
COOLING DESIGN ANALYZER
FOR METAL ENCLOSURES



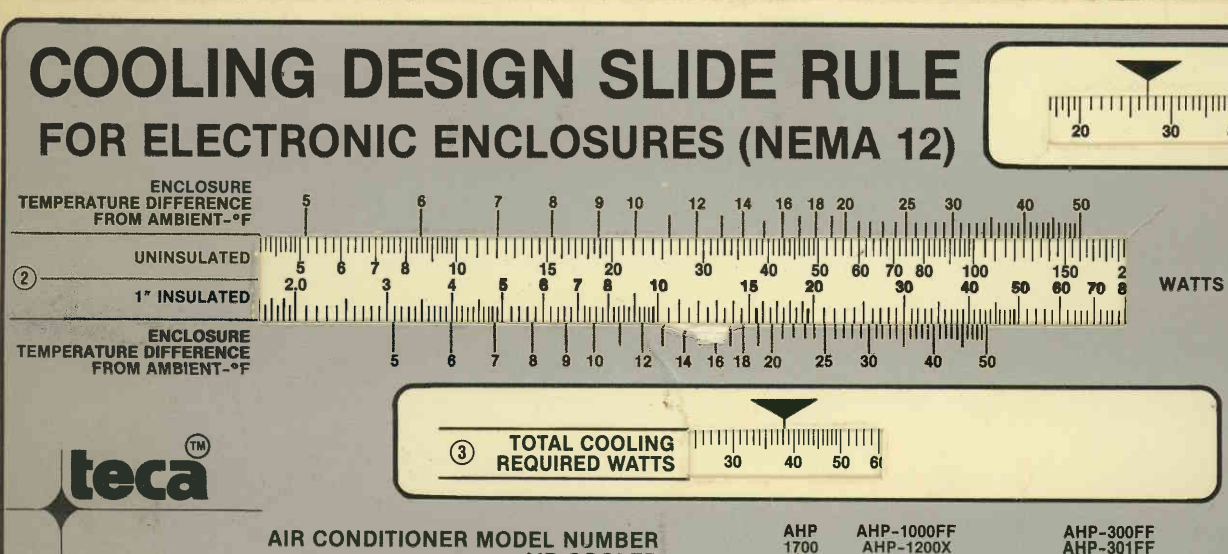
COOLING DESIGN SLIDE RULE
FOR ELECTRONIC ENCLOSURES (NEMA 12)



INSTRUCTIONS

1. Calculate total exposed exterior ENCLOSURE SURFACE AREA in square feet and set at Arrow.
2. Locate the required ENCLOSURE TEMPERATURE DIFFERENCE FROM AMBIENT between enclosure interior and surroundings and read matching heat flow thru walls. This value is negative if enclosure temperature is higher than surrounding temperature.
3. Add internal electrical heat load to heat flow thru walls and align TOTAL COOLING REQUIRED at Arrow.
4. Locate required ENCLOSURE TEMPERATURE DIFFERENCE FROM AMBIENT and select model number which satisfies condition. If condition falls between two models, unit on left will fulfill requirements.

COOLING DESIGN SLIDE RULE
FOR ELECTRONIC ENCLOSURES (NEMA 12)



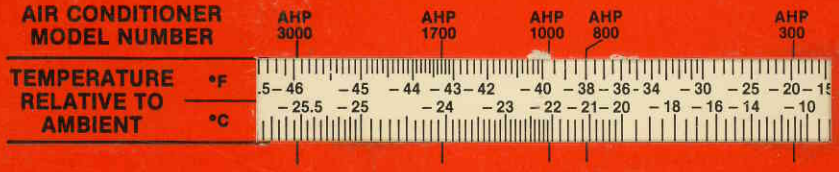
INSTRUCTIONS

1. Calculate total exposed exterior ENCLOSURE SURFACE AREA in square feet and set at Arrow.
2. Locate the required ENCLOSURE TEMPERATURE DIFFERENCE FROM AMBIENT between enclosure interior and surroundings and read matching heat flow thru walls. This value is negative if enclosure temperature is higher than surrounding temperature.
3. Add internal electrical heat load to heat flow thru walls and align TOTAL COOLING REQUIRED at Arrow.
4. Locate required ENCLOSURE TEMPERATURE DIFFERENCE FROM AMBIENT OR LIQUID INPUT and select model number which satisfies condition. If condition falls between two models, unit on left will fulfill requirements.

*Values are approximate. Please refer to individual performance curves for actual values.

BORG-WARNER AIR CONDITIONER SIZING GUIDE

7. Set TOTAL COOLING REQUIREMENTS in WATTS (obtained in #6) at Arrow. (1 Watt = 3.4 BTU/hr.)



8. Subtract surrounding air temperature from desired enclosure temperature. Watch signs (+, −). Select MODEL NUMBER which satisfies condition. IF CONDITION FALLS BETWEEN TWO MODELS, UNIT ON LEFT WILL FULFILL REQUIREMENTS.

ThermoElectrics BORG-WARNER®

the experts in solid state cooling

Call or write Borg-Warner engineers for technical assistance
Borg-Warner Thermoelectrics • Borg-Warner Corporation
3570 N. Avondale Avenue, Chicago, Illinois 60618-5391
(312) 588-5120

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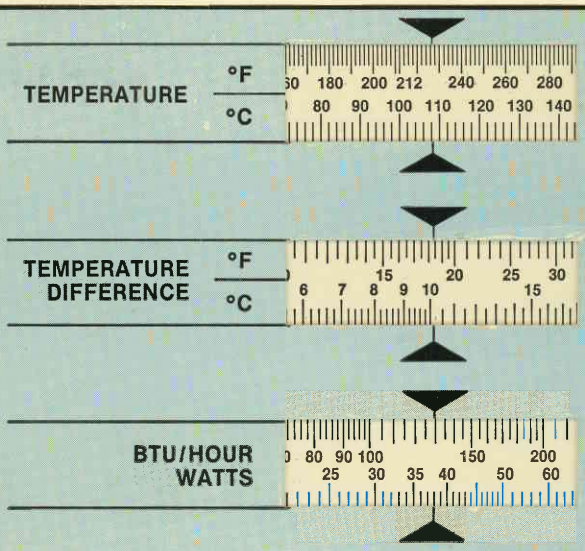
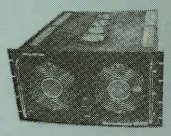


INSTRUCTIONS
1. Set known value at Arrow.
2. Read equivalent at opposite Arrow.


Model AHP-300FF
with cold side fins and fan


Model AHP-1000FF
with cold side fin and fan


Model AHP-3000


Model AHP-1700

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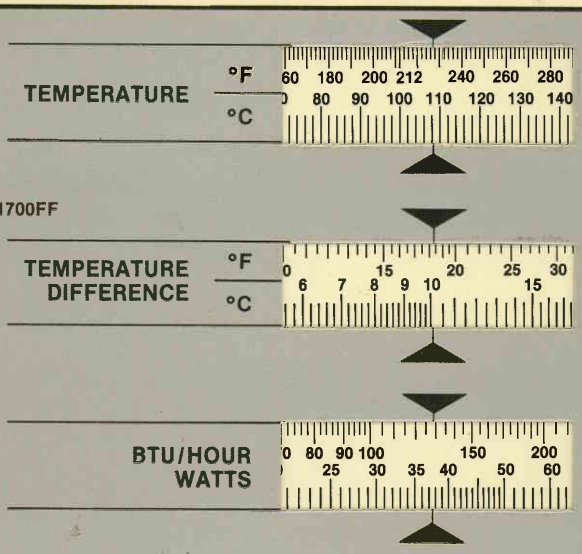
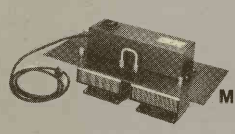
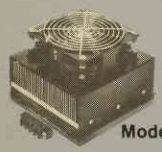
INSTRUCTIONS
1. Set known value at Arrow.
2. Read equivalent at opposite Arrow.



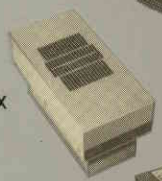

Model LHP-1700FF


Model LHP-800FF


Model LHP-300FF


Model AHP-1700


Model AHP-1000FF
with cold side fin and fan


Model AHP-1200X


Model AHP-301FF

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