

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Science

# COOLING OR HEATING?



## CHOOSE:

**BOILING EGGS**



heating

cooling

**IN THE REFRIGERATOR**



heating

cooling

**TEMPERATURE IN SUMMER**



heating

cooling

**PANS TO THE HEAT**



heating

cooling

**A BARBECUE**



cooling

heating

**IN THE OVEN**



heating

cooling

**LOLLIPOPS ON ICE**



heating

cooling

**A TOASTER**



Cooling

heating

**TEMPERATURE IN WINTER**



heating

cooling

**COOL BOXES**



heating

cooling

# Manual S Worksheet Cooling

**National Environmental Systems  
Contractors Association**

A red circular graphic element with a gradient, appearing as a semi-circle or a partial circle, located on the right side of the page, partially overlapping the grey bar.

## Manual S Worksheet Cooling:

**Manual J - Residential Load Calculation** Hank Rutkowski, 2011-11-01 Manual J 8th Edition is the national ANSI recognized standard for producing HVAC equipment sizing loads for single family detached homes small multi unit structures condominiums town houses and manufactured homes This new version incorporates the complete Abridged Edition of Manual J The manual provides quick supplemental details as well as supporting reference tables and appendices A proper load calculation performed in accordance with the Manual J 8th Edition procedure is required by national building codes and most state and local jurisdictions Environmental Systems Library: [manual]. Air Conditioning Contractors of America, 1955 , **Field Manuals** United States. War Department, 1978 **Manuals Combined: Over 20 U.S. Army Locomotive, Rail Car And Railroad Trackage Manuals** , Over 4 100 total pages Just a sample of the contents 256 page Army TRAIN RAILROAD RAILCAR Manual FULL TITLE MAINTENANCE OF RAILWAY CARS Published by the Department of the Army on 28 August 1972 current 174 page U S Technical RAILROAD Design FULL TITLE Technical Instructions Railroad Design and Rehabilitation Published 1 March 2000 207 page U S Navy RAILROAD Handbook FULL TITLE NAVY RAILWAY OPERATING HANDBOOK 207 pages Published by the Department of the Navy June 1999 U S Army RAILROAD LOCOMOTIVE Operations Manual FULL TITLE RAILWAY OPERATING AND SAFETY RULES Published by the Department of the Army on 17 July 1989 139 page Army RAILROAD Rolling Stock Manual Six Lessons 139 pages on CD ROM FULL TITLE RAILWAY ROLLING STOCK Published by the Department of the Army on 1 June 1997 274 page B B 160 LOCOMOTIVE Operator Manual FULL TITLE OPERATOR AND UNIT MAINTENANCE MANUAL LOCOMOTIVE DIESEL ELECTRIC 56 1 2 INCH GAGE 80 TON 670 HP 0 4 4 0 WHEEL MODEL B B 160 160 4GE747 A1 Published by the Department of the Army on 22 May 1991 268 page Army BALDWIN LIMA Locomotive Manual FULL TITLE OPERATOR AND UNIT MAINTENANCE MANUAL LOCOMOTIVE DIESEL ELECTRIC 56 1 2 INCH GAGE 60 TON 500 HP 0 4 4 0 WHEEL MODEL RS 4 TC 1A Published by the Department of the Army on 8 January 1987 419 page Army GE B B 160 Locomotive Manual FULL TITLE INTERMEDIATE DIRECT SUPPORT AND INTERMEDIATE GENERAL SUPPORT MAINTENANCE MANUAL LOCOMOTIVE DIESEL ELECTRIC 56 1 2 INCH GAGE 80 TON 670 HP 0 4 4 0 WHEEL MODEL B B 160 160 4GE747 A1 Published by the Department of the Army on 21 July 1987 396 page B B 160 LOCOMOTIVE Parts Manual FULL TITLE UNIT INTERMEDIATE DIRECT SUPPORT AND GENERAL SUPPORT REPAIR PARTS AND SPECIAL TOOLS LIST LOCOMOTIVE DIESEL ELECTRIC 56 1 2 INCH GAGE 80 TON 670 HP 0 4 4 0 WHEEL MODEL B B 160 160 4GE747 A1 NSN 2210 01 158 2980 Published by the Department of the Army on 31 March 1993 90 page 1955 Davenport LOCOMOTIVE Maintenance Manual FULL TITLE LOCOMOTIVE DIESEL ELECTRIC 56 GAGE 44 TON 0 4 4 0 400 HP DAVENPORT BESLER Published by the Department of the Army on 8 November 1955 Adjusting Central Air Conditioning Systems for Maximum Comfort National Environmental Systems Contractors Association, 1957 Green Your Home Jeanne Roberts, 2008 Teaches you how to use

earth friendly materials to build or upgrade your home **BOOK JACKET**      **Manuals Combined: 150+ U.S. Army Navy Air Force Marine Corps Generator Engine MEP APU Operator, Repair And Parts Manuals** , Over 36 000 total pages Just a **SAMPLE** of the **CONTENTS** by File Number and TM Number 013511 TM 5 6115 323 24P 4 GENERATOR SET GASOLINE ENGINE DRIVEN SKID MOUNTED TUBULAR FRAME 1 5 K SINGLE PHASE AC 120 240 V 28 VDC LESS ENGINE DOD MODELS MEP 015A 60 HZ NSN 6115 00 889 1446 AND DOD MODEL MEP 025A 28 VDC 6115 00 017 8236 TO 35C2 3 385 4 SL 4 07609A 07610A 013519 TM 5 6115 329 25P 1 GENERATOR SET GASOLINE ENGINE DR LESS ENGINE 0 5 KW AC 120 240 V 60 HZ 1 PHASE DOD MODEL FSN 6115 923 4469 400 HZ MODEL MEP 019A 6115 940 7862 AN DC MODEL MEP 024A 6115 940 7867 TO 35C2 3 440 14 013537 TM 5 6115 457 12 7 GENERATOR SET ENGINE DRIVEN TACTICAL SKID MTD 100 KW 3 PHASE 4 WIRE 120 240 416 V DOD MODELS MEP 007A UTILITY CLASS 50 60 HZ NSN 6115 00 133 9101 MODEL MEP 106A PRECISE CLASS 50 60 H 6115 00 133 9102 MODEL MEP 116A PRECISE CLASS 400 KW 6115 00 133 9103 INCLUDING OPTIONAL KITS MODEL MEP 007 AWF WINTERIZATION KIT FUEL BURNING 6115 00 463 9082 MEP 007AWE WINTERIZATION KIT ELECTRIC 6115 00 463 9084 MODEL MEP 007A DUMMY LOAD KIT 6115 00 463 9086 AND MODEL MEP 007AWM WHEEL 013538 TM 5 6115 457 34 12 GENERATOR SET DIESEL ENGINE DRIVEN TACTICAL SKID 100 KW 3 PHASE 4 WIRE 120 208 AND 240 416 V DOD MODELS MEP0 UTILITY CLASS 50 60 HZ NSN 6115 00 133 9101 MODEL MEP106A CLASS 50 60 HZ 6115 00 133 9102 AND MODEL MEP116A PRECISE 400 HZ 6115 00 133 9103 INCLUDING OPTIONAL KITS DOD MODELS MEP007AWF WINTERIZATION KIT FUEL BURNING 6115 00 463 9082 MEP007AWE WINTERIZATION KIT ELECTRIC 6115 00 463 9084 MOD MEP007ALM DUMMY LOAD KIT 6115 00 463 9086 AND MODEL MEP007A MOUNTING KIT 6 013540 TM 5 6115 458 24P 9 GENERATOR SET DIESEL ENGINE DRIVEN TACTICAL SKID MTD 2 KW 3 PHASE 4 WIRE 120 208 AND 240 416 VOLTS DOD MODELS MEP009A UTILITY CLASS 50 60 HZ NSN 6115 00 133 9104 AND MODEL MEP108A PRECISE CLASS 50 60 HZ 6115 00 935 8729 INCLUDING OPTIONAL K DOD MODELS MEP009AWF WINTERIZATION KIT FUEL BURNING 6115 00 403 3761 MODEL MEP009AWE WINTERIZATION KIT ELECTRIC 6115 00 489 7285 013545 TM 5 6115 465 12 19 GENERATOR DIESEL ENGINE DRIVEN TACTICAL SKID MTD 30 KW 3 PHASE 4 WIRE 120 208 AND 240 416 V DOD MODEL MEP 005A UTILITY CLASS 50 6 NSN 6115 00 118 1240 MODEL MEP 104A PRECISE CLASS 50 60 6115 00 118 1247 MODEL MEP 114A PRECISE CLASS 400 HZ 6115 00 118 1248 INCLUDING AUXILIARY EQUIPMENT DOD MODEL MEP WINTERIZATION KIT FUEL BURNING 6115 00 463 9083 MODEL MEP WINTERIZATION KIT ELECTRIC 6115 00 463 9085 MODEL MEP 005A LOAD BANK KIT 6115 00 463 9088 AND MODEL MEP 005AWM WH 013547 TM 5 6115 465 34 12 GENERATOR SET DIESEL ENGINE DRIVEN TACTIC SKID MTD 30 KW 3 PHASE 4 WIRE 120 208 AND 240 416 V DOD MO MEP 005A UTILITY 50 60 HZ NSN 6115 00 118 1240 MODEL MEP 104A PRECISE 50 60 HZ 6115 00 118 1247 MODEL MEP 114 PRECISE 50 60 HZ 6115 00 118 1248 INCLUDING OPTIONAL KITS MODEL MEP 005AWF WINTERIZATION KIT FUEL BURNING 6115 00 463 MODEL MEP

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SET DIESEL ENGINE DRIVEN TACTICAL SKID MTD 10 KW 1 PHASE 2 WIRE 1 PHASE 3 WIRE AND 3 PHASE 4 WIRE 120  
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584 34 8 GENERATOR SET DIESEL ENGINE DRIVEN TAC SKID MOUNTED 5 KW 1 PHASE 2 WIRE 1 PHASE 3 WIRE 3  
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INCLUDING OPTIONAL KITS DOD MODEL MEP007BWF WINTERIZATION KIT FUEL BURNING AND MEP007BWE WINTERIZATION KIT ELECTRIC TO 35C2 3 442 14 NAVFAC P 8 628 24P SL 4 07464B 057268 LO 5 6115 600 12 GENERATOR SET DIESEL ENGINE DRIVEN TACTICAL SKID MTD 100 KW PHASE 4 WIRE 120 208 AND 240 416 V DOD MODEL MEP007B CLASS UTILITY 50 60 HZ NSN 6115 01 036 6374 057513 LO 5 6115 604 12 GENERATOR SET DIESEL ENGINE DRIVEN AIR TRANSPORTABLE SKID MT 750 KW 3 PHASE 4 WIRE 2400 4160 AND 2200 3800 VOLTS DOD MOD MEP208A CLASS PRIME UTILITY HZ 50 60 NSN 6115 00 450 5881 LI 6115 12 9 060183 TM 5 6115 612 24P 6 GENERATOR SET AVIATION GAS TURBINE ENGINE DRIVEN INTEGRA TRAILER MOUNTED 10KW 28 VOLTS MODEL MEP 362A PRECISE DC NSN 6115 01 161 3992 TM 6115 24P 1 AG 320B0 IPE 000 TO 35C2 3 471 4 060188 TM 5 6115 612 34 4 GENERATOR SET AVIATION GAS TURBINE ENG DRIVEN INTEGRAL TRAILER MOUNTED 10KW 28 VOLTS DOD MODEL MEP 36 PRECISE DC NSN 6115 01 161 3992 AG 320B0 MME 000 TM 6115 TO 35C2 3 471 2 060645 LO 5 6115 612 12 AVIATION GENERATOR SET GAS TURBINE ENGINE DRIVEN INTEGRAL TR MOUNTED 10KW 28 VOLTS DC DOD MODEL MEP 362A CLASS PRECISE NSN 6115 01 161 3992 060921 TM 55 1730 229 34 5 POWER UNIT AVIATION MULTI OUTPUT GTED ELECTRICAL HYDRAULIC PNEUMATIC AGPU WHEEL MOUNTED SELF PROPELLED TOWA AC 400HZ 3PH 0 8 PF 115 200V 30 KW DC 28VDC 700 AMPS PNEUMATIC 60 LBS MIN AT 40 PSIG HYDRAULIC 15 GPM AT 3300 PS DOD MODEL MEP 360A CLASS PRECISE 400 HERTZ NSN 1730 01 144 AG 320A0 MME 000 TO 35C2 3 473 2 TM 1730 34 1 060922 TM 55 1730 229 12 8 POWER UNIT AVIATION MULTI OUTPUT GTED ELECTRICAL HYDRAULIC PNEUMATIC AGPU WHEEL MOUNTED SELF PROPELLED TOWABLE AC 400HZ 3PH 0 8 PF 115 200V 30 KW DC 28 VDC 700 AMPS PNEUMATIC 60 LBS M AT 40 PSIG HYDRAULIC 15 GPM AT 3300 PSIG DOD MODEL MEP 360A CLASS PRECISE HERTZ 400 NSN 1730 01 144 1897 AG 320A0 OMM 000 TO 35C2 3 473 1 TM 1730 12 1 061758 LO 5 6115 614 12 GENERATOR SET DIESEL ENGINE DRIVEN TACTICAL SKID MTD 200 KW 3 PHASE 4 WIRE 120 208 AND 240 416 VOLTS MODEL MEP009B UTILI 50 60 HERTZ NSN 6115 01 021 4096 061772 LO 5 6115 622 12 GENERATOR SET DIESEL ENGINE DRIVEN WHEEL MOUNTED 750 KW 3 PH 4 WIRE 2200 3800 AND 2400 4160 VOLTS CUMMINS ENGINE COMPANY IN MODEL KTA 2300G 2 DOD MODEL MEP 012A CLASS UTILITY HERTZ 062762 LO 5 6115 615 12 GENERATOR SET DIESEL ENGINE DRIVEN TACTICAL SKID MOUNTED 3 K MODEL 016B CLASS UTILITY MODE 50 60 HZ NSN 6115 01 150 4140 DOD MODEL MEP 021B CLASS UTILITY MODE 400 HZ 6115 01 151 812 DOD MODEL MEP 026B CLASS UTILITY MODE 28 VDC 6115 01 150 036 LI 05926B 06509B 12 5 P 8 646 LO 064310 TM 5 6115 626 14 TM 1730 24P AG 320A0 IPB 000 065603 TB 5 6115 593 24 WARRANTY PROGRAM FOR GENERATOR SET DOD MODEL MEP 029A HOUSING K DOD MODEL MEP 029AHK 066727 TM 5 6115 640 14 2 MEP 005A 30 KW 60 HZ GEN SETS 2 M200A1 2 WHEEL 4 TIRE MODIFIED TRAILERS 066809 TM 5 6115 630 14 MEP 104A PRECISE 50 60 HERTZ 6115 00 118 1247 MEP 114A PRECISE 400 HERTZ 6115 00 118 INCLUDING AUXILIARY EQUIPMENT MEP 005AWF WINTERIZATION KIT FUE BURNING 6115 00



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INCLUDING OPTIONAL KITS DOD MODELS MEP 00 WINTERIZATION KIT FUEL BURNING 6115 00 463 9083 MEP 005  
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AWF WINTERIZATION KIT FUEL BURNING 6115 00 463 DOD MODEL MEP 005 AWE WINTERIZATION KIT ELECTRIC  
6615 00 46 DOD MODEL MEP 004 ALM LOAD BANK KIT 6115 00 191 9201 071025 TM 9 6115 641 10 2 GENERATOR SET  
SKID MOUNTED TACTICAL QUIET 5 KW 60 AND 400 HZ MEP 802A 60 HZ NSN 6115 01 274 7387 MEP 812A 400 HZ 6115  
01 274 7391 TO 35C2 3 456 11 071026 TM 9 6115 642 10 2 GENERATOR SET SKID MOUNTED TACTICAL QUIE 10 KW 60  
AND 400 HZ MEP 803A 60 HZ NSN 6115 01 275 5061 MEP 813A 400 HZ 6115 01 274 7392 TO 35C2 3 455 11 TM 09247A  
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MEP 804A 50 60 HZ NSN 6115 01 274 73 MEP 814A 400 HZ 6115 01 274 7393 TO 35C2 3 445 21 071029 TM 9 6115 644 10  
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7390 MEP 816A 400 HZ 6115 01 274 7395 TO 35C2 3 444 11 TM 09244A 09245A 10 1 071031 LO 9 6115 641 12  
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Evaluating Gas-fueled Cooling Technologies for Application at Army Installations Gerald L. Cler,1995 **DOE-2**

**Reference Manual** Henry L. Horak,Don A. York,Bruce D. Hunn,John L. Peterson,Mark A. Roschke,Eva F. Tucker,1979

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