

COPPER COIL ESTIMATING SHEET - 9X14D18

NO COILS/MAGNET 2
 WATER SYST PRESS 125
 (PSI)

**COIL
 PARAMETERS**

URNS 32
 MEAN TURN L (IN) 80
 COIL LENGTH (FT) 213.33
 COIL WEIGHT (LBS) 127.7

CONDUCTOR PARAMETERS

HEIGHT (IN) 0.500
 WIDTH (IN) 0.420
 ID (IN) 0.260
 CONDUCTOR AREA (IN*IN) 0.157
 WATER AREA (IN*IN) 0.053
 WEIGHT/FT (LBS) 0.599

**MAGNET
 PARAMETERS**

NO WATER CIRCUITS 2
 TOTAL FLOW (GPM) 0.87
 CURRENT (AMPS) 460
 VOLTAGE 11.1
 RESISTANCE (OHMS) 0.0240
 PRESS DROP (PSI) 15
 TEMP RISE (F) 40

ELECTRICAL PARAMETERS

CURRENT (AMPS) 460
 CURR. 2932
 DENS.(A/IN^2)
 RESISTANCE 0.0120
 VOLTAGE 5.5
 POWER (KW) 2.5

COOLING PARAMETERS

NO WATER CIRCUITS 1
 TEMP RISE (F) 40
 TOTAL FLOW (GPM) 0.43
 FLOW(GPM)/CIRCUIT 0.43
 VELOCITY (FPS) 2.63
 REYNOLDS NUMBER 9.35E+03
 FRICTION FACTOR 0.032
 PRESS DROP (PSI) 15

**MAX MAGNET
 PARAMETERS**

NO WATER CIRCUITS 2
 FLOW @ MAX PRESS 2.54
 MAX CURRENT (AMPS) 786
 MAX VOLTAGE 18.9
 RESISTANCE (OHMS) 0.0240
 TEMP RISE (F) 40