

COOLING PRODUCTS, INC.
P.O. BOX 45523
TULSA, OKLAHOMA 74145
AIR COOLED HEAT EXCHANGER DATA SHEET

SHEET NO. 1 OF 1
REVISED
EQUIPT. TAG NO.
ITEM # 1

MODEL 1M19-36142

1 CUSTOMER
2 PLANT LOCATION ANSCHUTZ, WY
3 SERVICE BLIC INTERCOOLER
4 SIZE AND TYPE 19 X 36 X 16.0 (FT.) ~~XXXXXXXX~~ FORCED DRAFT NO. OF BAYS 1
5 SURFACE PER UNIT - EXTENDED 68028. SQ FT BARE TUBE 4326. SQ FT
6 HEAT EXCHANGED 13400000. BTU/HR MTD(EFF.) 40.76
7 TRANSFER RATE - EXTENDED 4.80, BARE 75.52, CLEAN 88.75 BTU/H/SQFT/DEG F
8 .. PERFORMANCE DATA ..
9 .. TUBE SIDE ..

10 FLUID CIRCULATED NAT. GAS GRAVITY, LIQ API/SQ AT 60
11 TOTAL FLUID ENTERING 160000. LB/HR FOUR POINT DEG F
12 IN OUT BUBBLE PT F DEW PT F
13 TEMPERATURE DEG F 212.0 100.0 SP HT 0.700 BTU/LB AT F
14 LIQUID LBS/HR LATENT HT BTU/LB AT F
15 VAPOR LBS/HR, MW 160000#/20.6 160000#/20.6 COND. (VAP/LIQ) AT F
16 NONCOND LBS/HR, MW OUTLET PRESS PSIG/PSIA
17 STEAM LBS/HR ALLOW PRESS DROP PSI
18 WATER LBS/HR CALC. PRESS DROP 12.10 PSI
19 VISCOSITY(LIQ/VAP) CP FOULING RESIST, INSIDE .0015

20 .. AIR SIDE ..
21 AIR QUANTITY 1373201. (LBS/HR) ALTITUDE 7400. FT
22 AIR QUANTITY/FAN 206494. ACFM TEMPERATURE IN 85.0 DEG F
23 STATIC PRESSURE 0.4712 IN WATER TEMPERATURE OUT 125.7 DEG F
24 FACE VEL 467.5 FPM(STD) MASS VEL 4150. LB/HR MINIMUM AMBIENT DEG F

25 .. DESIGN-MATERIALS-CONSTRUCTION ..
26 DESIGN PRESSURE 2700. PSI TEST PRESS 4050. PSI DESIGN TEMPERATURE 350° F
27 TUBE BUNDLE (153B5-36-04) HEADER TUBE
28 SIZE 74.13X 432 ROWS 5 TYPE BOX MATERIAL C.S. 11 Bwg.
29 NO./BAY 3 MATL A-516-70 STEEL ASTM A-214 ~~XXXXXXXX~~ WELDED
30 ARRANGEMENT - PASSES-NO. 4 ARRANG OD 1.0000 IN MIN THICK 120IN
31 BUNDLES 3 IN PARALLEL PLUG-DESIGN SHOULDER NO/BUNDLE 153 LENGTH 36 FT
32 BAYS 1 IN PARALLEL MATERIAL STEEL PITCH 2.3125
33 BUNDLE FRAME CHANNEL GASKET MATERIAL STEEL FIN
34 MISCELLANEOUS CORR ALLOW 1/16 IN TYPE MECHANICAL BOND
35 STRCTR MTG - PIPERACK/GRADE INLET NOZZLE 6.0IN MATERIAL ALUMINUM
36 SURFACE PREPARATION OUTLET NOZZLE 6.0IN OD 2.0000 STOCK THICK .016IN
37 LOUVERS AUTO/ MANUAL RATING 1500# RTJ NO./IN. 10.00
38 CODE - ASME VIII STAMP YES SPECS ANSI

39 .. MECHANICAL EQUIPMENT ..
40 FAN AEROVENT or MOORE DRIVER SPEED REDUCER
41 MFR. AND MODEL TYPE ELECTRIC MOTOR TYPE V-BELT POWERBAND
42 NO./BAY 2 HP/FAN 25.5 NO/BAY 2 HP/DRVR 30.0 NO./BAY 2
43 DIAM 14.00 (FT.) RPM 273 RPM 1200 "F" MODEL C-180 45.6" C.D.
44 NO BLDS 4 PITCH ADJ AUTO ENCLOSURE XP HI-EFF HP RATING 53.1 (3 Grooves)
45 BLADE MATL ALUM. ANGLE 16.00 V/PH/CY 460/3/60 RATIO 4.19:1 10.5 & 44 SHV.
46 HUB MATERIAL ALUM. MFR. GE or Equal MFR. U. S. OR EQUAL
47 CONTROL ACTION ON AIR FAILURE-FAN PITCH MIN/MAX, LOUVERS OPEN/CLOSED

48 NELSON 7AS20C VIB SWITCHES
49 MECH EQUIP SUPPORTED FROM STRUCTURE BASE COOLER REQUIRES FIELD ERECTION
50 ROUNDED EASED ENTRY FAN RINGS BY ROTH MANU. (16 ga. 28" HIGH)
51 8' PLENUM HT. TO EQUAL BLIC A.C. (6" SHORT OF HT. SPEC 6.f.)
52 EXCEPT: 6.q. - 5 ROW & 6.d. (RE-RUN 19'wide not 18')
53 14.b. - PER FAN MAN.
54 23.b. - 16 ga. (ONLY AVAILABLE TYPE)
55 10. - 4 PASS CANNOT BE SELF DRAINING & SLOPE REQUIRES DRAIN PLUGS
56 19x45 w/ recirc

57 PLOT AREA 19x36 PROPOSAL DWG NO. WEIGHT-BUNDLE 16604. SHIPPING 67061.