



# AIR COOLED EXCHANGERS, LLC

1201 SOUTH 9TH - BROKEN ARROW, OKLAHOMA 74012

Ph (918) 251-7477

Fax (918) 258-1833

E-MAIL: MAILHUB@ACE-COOLERS.COM

## COOLER PERFORMANCE SPECIFICATION

<b>CUSTOMER</b>	ENOGEX	<b>PROPOSAL NUMBER</b>	8248PWE
<b>REFERENCE</b>	VERDEN COMPRESSOR STATION	<b>DATE</b>	9/16/2008
<b>MODEL</b>	E144-2-40	<b>PAGE</b>	1

### PERFORMANCE OF ONE UNIT

SERVICE	IC1	IC2	AC
FLOW	28.60MMSCFD	28.60MMSCFD	28.60MMSCFD
FLUID	.65	.65	.65
TEMPERATURE IN, F	258.0	250.0	250.0
TEMPERATURE OUT, F	125.0	125.0	125.0
INLET PRESSURE, PSIG	245.0	605.0	985.0
PRESSURE DROP, PSI	5.5	4.0	5.5
DUTY, BTU/HOUR	4576684	4498753	4737066
CORRECTED MTD	39.6	47.1	39.9
BARE TUBE RATE	76.0	78.2	86.9
FOULING	0.00200	0.00200	0.00200
BARE SURFACE, SQ. FT.	1522	1223	1366
TOTAL SURFACE SQ. FT.	30059	24150	26976

### CONSTRUCTION

NO. SECTIONS	1	1	1
NO. TUBES/SECTION	117	94	105
LENGTH	40.0	40.0	40.0
NO. ROWS	6	4	6
NO. PASSES	2	2	3
COUNTERFLOW	YES	YES	YES
TUBE O.D. AND BWG	1.25X16BWG	1.25X14BWG	1.25X14BWG
TUBE MATERIAL	SA214(WLD)	SA214(WLD)	SA214(WLD)
DESIGN PRESSURE, PSI	430	1245	1287
DESIGN TEMPERATURE, F	350/-20	350/-20	350/-20
NOZZLES-INLET	10-300RF	8-600RF	8-600RF
NOZZLES-OUTLET	10-300RF	8-600RF	8-600RF
HEADER TYPE	BOX W/PLUGS	BOX W/PLUGS	BOX W/PLUGS
HEADER MATERIAL	SA-516-70 NORM	SA-516-70 NORM	SA-516-70 NORM
ASME CODE STAMP	YES W/NB	YES W/NB	YES W/NB
GROOVED TUBE SHEET			
CORROSION ALLOWANCE	0.125	0.125	0.125
PLUGS, TYPE	SHOULDER	SHOULDER	SHOULDER
PLUGS, MATERIAL	SA-105	SA-105	SA-105
TURBULATORS			
ACCELERATORS			
LOUVERS	AUTO	AUTO	AUTO
STRESS RELIEVE	NO	YES	YES
NDE			
ADDITIONAL CODES	API661		
CANADIAN REGISTRATION			
ADDITIONAL COUPLINGS	6	6	6
BYPASS NOZZLE			
FINS	HYPERF L-FOOT	HYPERF L-FOOT	HYPERF L-FOOT

### AIR DATA

INLET AIR, F	105.0	ELEVATION, FT.	1400
OUTLET AIR, F	162.6	TOTAL SCFM	221038

### MECHANICAL EQUIPMENT

NO FANS	2	HP/FAN	21.6	RPM	282	DIA	144
FAN	MOORE SERIES 48	FAN MATERIAL	ALUM	NUMBER OF BLADES	6	PITCH	8 DEGREES
V-Belt Drive By (2) 25 HP 1800 RPM 460/3/60 TEFC ELECTRIC MOTORS							
DRAFT TYPE	FORCED						
EST SHIPPING WEIGHT	52168	WIDTH	13.4	LENGTH	42.1	HEIGHT	14.0
ACCESSORIES	Hailguard. Special Vib. Switch						
FINISH ACE std prep. w/ Epoxy primer, ACE standard enamel tinted Enogex Beige Color							