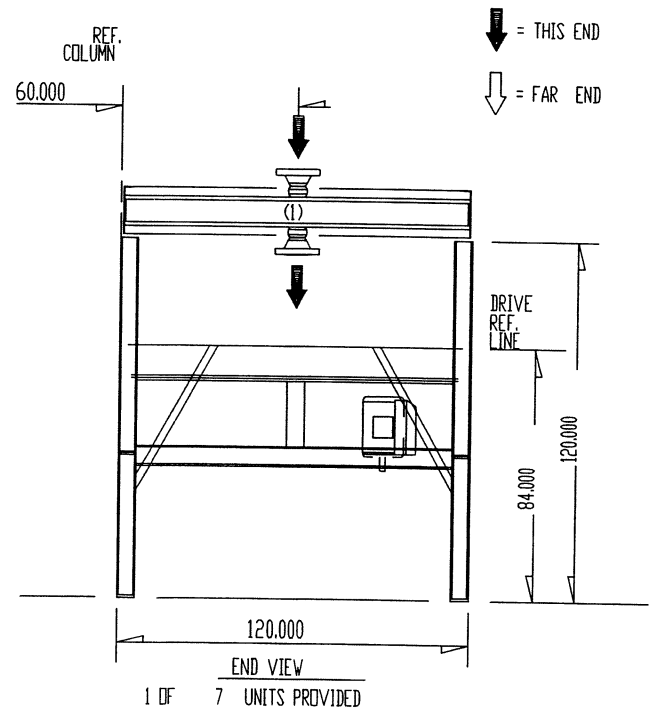
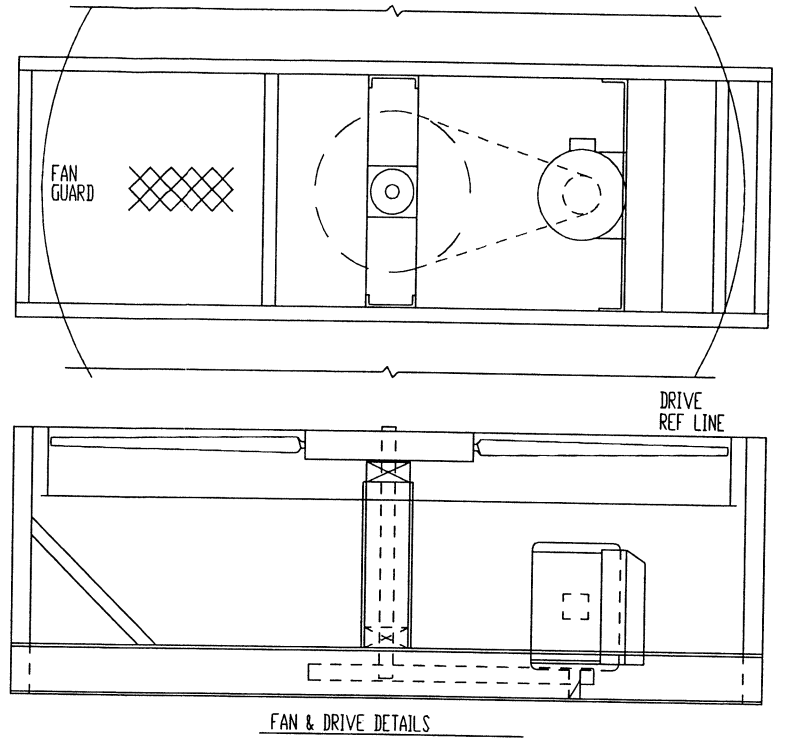
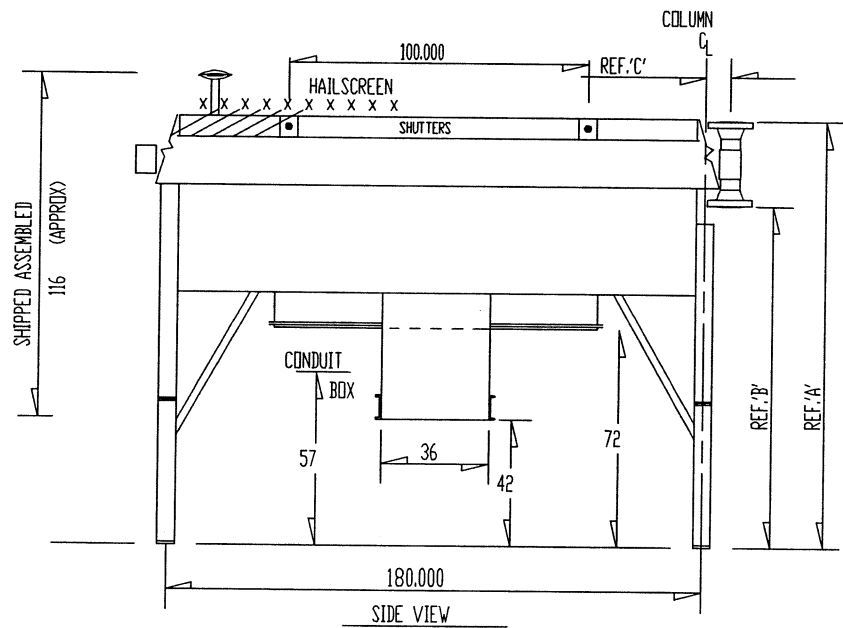
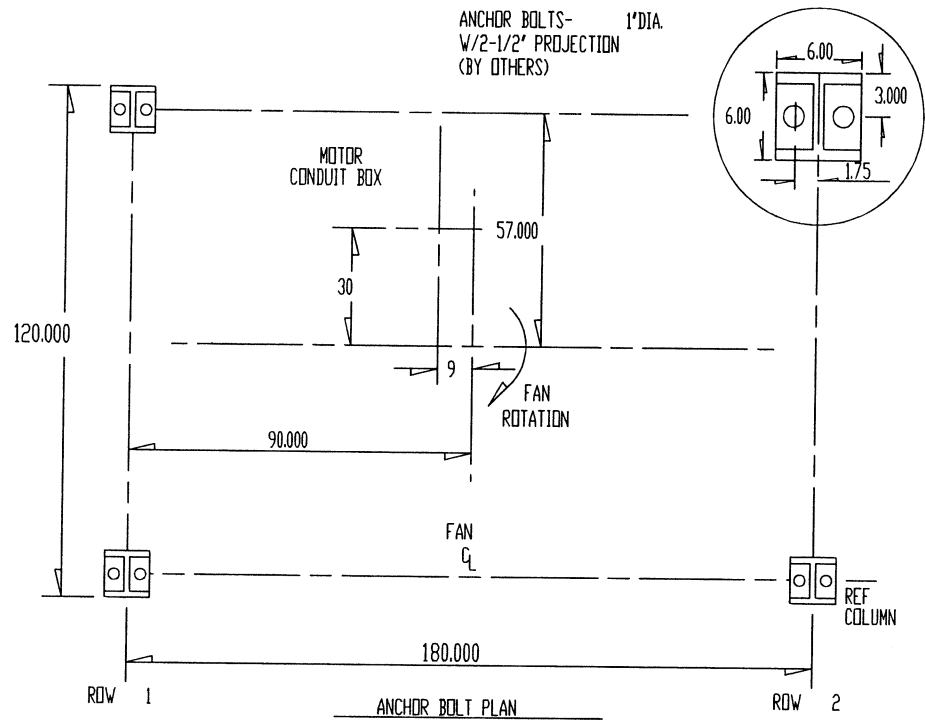


DRY WGT	12919	WIND	30.0	PSF	/100	MPH	SEISMIC	0	PLATFORM	0	LBS/SQ-FT LIVE	FAN	33	5000	MOTOR HP	25.0	RPM	1750.	/0.
COLUMN LOAD (KIPS)		DRY DEAD		WET DEAD		WIND VERT	WIND HORIZ	SEIS VERT	SEIS HORIZ	SNOW	PLAT	NOZZ VERT	NOZZ HORIZ	TOTAL	108	IN. DIAMETER	5	BLADE	284T EXPLOSION PROOF
ROW 1 /COLUMN	3.2	3.6	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	113000	ACFM	10.3	DEG.	INSULATION CLASS F /B TEMP RISE
ROW 2 /COLUMN	3.2	3.6	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	DRIVE REDUCER				460 /3/60 SINGLE WINDING VARIABLE TORQUE
															BELTS (5) 3VX -1120				AMPS(100%FLA 31. LRA 183.
															SHEAVES FAN 25.0 MOTOR 6.0				
															BEARINGS 2.1875 IN.				

CERTIFIED
DAVID COLLIS
2/5/01



ITEM	SERVICE	NOZZLES INLET	OUTLET	REFERENCE DIMENSIONS				BUNDLE WEIGHT	COUPLINGS			SHUTTER- OPERATOR	HAIL SCR	CODE	DESIGN PRESS.	TOLERANCES: (ALL DIMENSIONS IN INCHES) MECHANICAL EQUIPMENT ± 1/8" PER 10' -0" NOZZLE ± 1/8" STRUCTURAL- WITH 1 HAND TOOL CLEAN WITH 1 COAT GALVANIZE FRAME- WITH 1 HAND TOOL CLEAN WITH 1 COAT GALVANIZE HEADER- WHITE METAL BLAST CLEAN WITH 1 COAT METALIZE CUSTOMER CDGC RESALE LOCATION LAVACA CO. REFERENCE 0625-000005046 CERTIFIED BY DATE	AMERCOOL AIR COOLED DIVISION TYLER, TEXAS PIPING, EQUIPMENT OUTLINE & ANCHOR BOLT PLAN MODEL 1 F 16 -100 -1 QUANTITY 7 DWN HP CKD DATE 2 -5 -2001 REV JOB 2001C 412 -A	
				A	B	C	D		V&D	TEMP	PRESS							
1	AC	NATURAL GAS CLR-1	(1) 6.00 - 900 # RF SCH 160	(1) 6.00 - 900 # RF SCH 160	142.750	113.875	8.250		8500			JSN D-3153-4	YES	ASME	1440			
NOTES: 1. (1) KIMRAY T12 TEMPERATURE CONTROLLER PER UNIT SHIPPED LOOSE W/1" THERMOWELL FOR INSTALLATION BY OTHERS.																		

AMERCOOL Manufacturing Inc.

P.O. Box 9310 • Tulsa, OK 74157

Phone: (918) 445-5366 • FAX (918) 445-2857

AIR COOLED EXCHANGER SPECIFICATION SHEET

Date	Thu* 2:27 pm* 7-JAN-10
Proposal/Job No.	2001C-412-01
Reference	0625-0000005046
Item No.	AC

Customer	COGC RESALE			Item No.	AC
Plant Location	LAVACA CO.				
Service	NATURALGAS CLR-1				
Model	1 F16-100-1	Type	FORCED	No. of Bays	1 (7 Units)
Surface per Unit-Finned Tube	17,930	Ft ²	Bare Tubes	846.8	Ft ²
Heat Exchanged	3,253,000	BTU/Hr	MTD (Eff.)	38.2 (Counter Flow)	°F
Transfer Rate-Finned Tube	4.75	Bare Tube, Service	100.54	BTU/Hr. Ft ² °F	

PERFORMANCE DATA-TUBE SIDE

Fluid Name	0.65 SG	Lethal Service	Yes ☐ No ☒	IN	OUT
Total Fluid Entering	Lb/Hr 82,940	Density	Lb/Ft ³	3.46	3.82
	IN	OUT	Specific Heat (Liq/Vap)	BTU/Lb°F	/ .654 / .654
Temperature	°F 180.0	120.0	Cond. (Liq/Vap)	BTU/HrFt ² °F	.0260
Liquid	Lb/Hr		Pour/Freeze Point	°F	
Vapor	Lb/Hr (MW) 82,940 (18.8)	82,940 (18.8)	Bubble Point	°F	
Nocond	Lb/Hr (MW)		Latent Heat	BTU/Lb	
Steam	Lb/Hr		Pressure	Psia	1263.78
Water	Lb/Hr		Pressure Drop Allow/Calc	Psi	10.00 / 7.12
Viscosity (Liq/Vap)	Cp / .013	/ .013	Fouling resist, Inside	ft ² hr °F/BTU	0.00200

PERFORMANCE DATA-AIR SIDE

Air Quantity	SCFM 106,200	Lb/Hr 477,800	Altitude	Ft 500
Air Quantity/Fan ACFM	113,000		Temperature In	°F 95.0
			Temperature Out	°F 123.2

DESIGN - MATERIAL - CONSTRUCTION

Design Pressure	1,440	Psig	Test Pressure	2,160	Psig	Design Temperature	350 / MDMT -20	°F
TUBE BUNDLE	HEADER, Type PLUG BOX					TUBE Material	SA-249 T316L	
Size	9.9 x 16.0		Material	SA-516 GR-70				
No. 1	No. Tube Rows 4		No. Passes 4	Slope 0.0000	In/Ft	OD 1.000	In	Min. Thick 0.0600 In
Bays 1	In Parallel	In Series	Plug A1051822			No./Bundle 202	Length 16.0	Ft
Bundles 1	In Parallel	In Series	Gasket CS1813			Pitch 2.3125	InΔ	
Pass Arrangement (Top to Bottom)	Corrosion Allowance 0.1250					FIN Type	L-TENSION	
Rows / Pass 4/ 4	Size In Nozzle (1) 6.00 SCH 160 SA-106B					Material	ALUM	
Turbulators NO	Size Out Nozzle (1) 6.00 SCH 160 SA-106B					OD 2.250	In	Stock Thick 0.015 In
Steam Coil NO	Rating & Facing 900 -RF SA-105					No./In 10	Support Chan. / Staple	
Hailscreens YES	Vent (0) Drain (0)					Code-ASME VIII, Div 1	YES	Stamp ASME
Louvers ALUM (1) JSN D-3153-4	TI PI					Radiograph N	Heat Treat YES	
Frame Finish HTC 1 Coat Galvanize	Header Finish WMSB 1 Coat Metalize					Tube Hole Grooving	YES	

MECHANICAL EQUIPMENT

FAN Mfg & Model	Moore or Equal 33 5000	DRIVER Type	ELECTRIC MOTOR	SPEED REDUCER Type	V-BELT
No./Bay 1	RPM 417	S.F. 1.00	Insul/TR CLASS F / B	BELTS (5) 3VX -1120.	SHEAVES 25.0/6.0
Dia. 9.0	Ft. No. Blades 5	No./Bay 1	Frame 284T HP 25.0	No./Bay 1	
Pitch ADJUSTABLE	Angle° 10.	RPM (1) 1750	Duty CHEM	HP Rating 40.3	Ratio 4.19
Matl, Blade ALUMINUM	Hub CASTALUM	Enclosure EXPLOSION (H.E.) V & D None		Support: SUSPENDED	FROM STRUCTURE
HP/Fan, Des. 17.2	DBA 90.	V/P/C 460/3/60	Space Heater NO	Vibration Switch	NONE

STRUCTURE

WALKWAYS

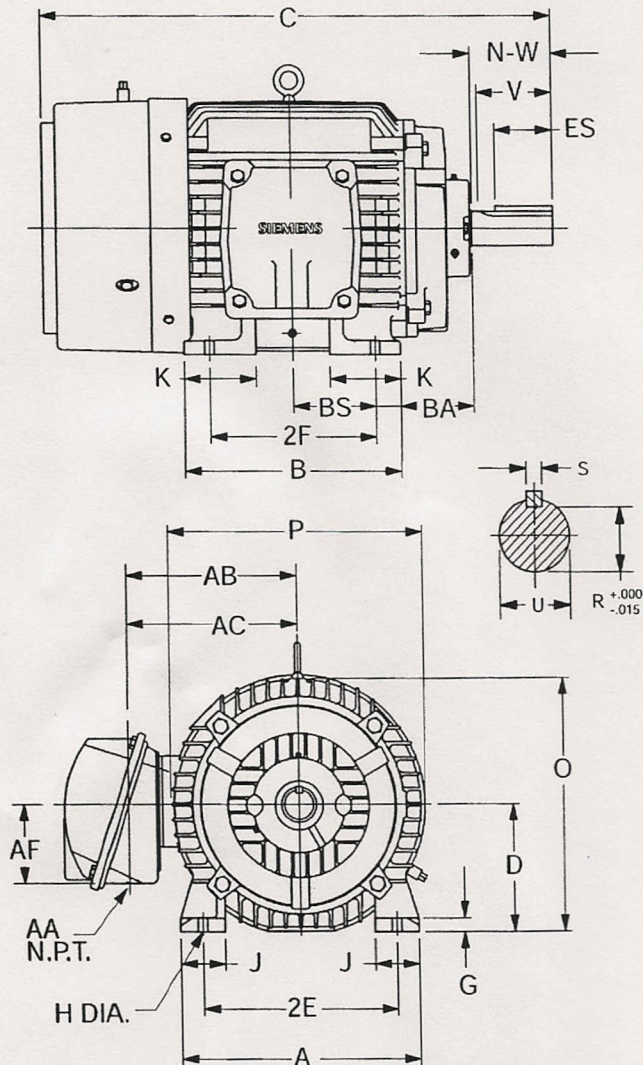
Mounting	GRADE	Inlet Header	in. None
Windload - PSF	30.0	Seismic	None
Finish	HTC 1 Coat Galvanize	Outlet/Return	in. None
		Drive Access	in. None

NOTES

Coil Volume (ft^3):	18.
Assembled Drive, Structure & Bundles (Within Shipping Restrictions)	
Plot Area 10.0 x 16.0 ft	Weight Bundle 8,479
Lbs	Total Shipping 14,860
	Lbs

Application Manual for NEMA Motors

Type RGZZ, RGZZE, RGZZSD, RGZZESD — Explosion-Proof, Severe Duty Explosion-Proof Premium Efficiency Explosion-Proof Frames 284/6T - 284/6TS



Standard Dimensions in Inches

FRAME	284T	286T	284TS	286TS
A	13.50	13.50	13.50	13.50
B	10.90	12.40	10.90	12.40
C	27.40	28.90	26.00	27.50
D	7.00	7.00	7.00	7.00
2E	11.00	11.00	11.00	11.00
2F	9.50	11.00	9.50	11.00
G	0.75	0.75	0.75	0.75
H	0.531	0.531	0.531	0.531
J	2.50	2.50	2.50	2.50
K	2.80	2.80	2.80	2.80
N-W	4.62	4.62	3.25	3.25
O	14.27	14.27	14.27	14.27
P	14.38	14.38	14.38	14.38
U	1.875	1.875	1.625	1.625
V	4.38	4.38	3.00	3.00
ES	3.25	3.25	1.88	1.88
BA	4.75	4.75	4.75	4.75
BS	4.75	5.50	4.75	5.50
AA(NPT)	1.50	1.50	1.50	1.50
AB	13.16	13.16	13.16	13.16
AC	9.63	9.63	9.63	9.63
AF	5.19	5.19	5.19	5.19
R	1.591	1.591	1.416	1.416
S	0.500	0.500	0.375	0.375
Approx. Ship Wt. (Lbs)	406	545	406	545

Notes

(D) Frames 143T-326T + .000-.032
Frames 364T-449T + .000-.062
(S) .188 to .750 + .002-.000
Over .750 to 1.500 + .003-.000

(U) .750 to 1.500 + .000-.0005
Larger than 1.500 = .000-.001
(V) Shaft length available for coupling,
pinion or pulley hub.

Certified Print

CUSTOMER AMERCOOL MANUFACTURING P.O.# J12094, JOB#1C4120-06

S.O.# 2048933

H.P. 25

R.P.M. 1800

FRAME 284T

PH 3 460 VOLT

HZ 60

BY: SUSAN BROWN

DATE: 02-19-01

Not for construction, installation or application purposes, unless certified.

SIEMENS ENERGY AND AUTOMATION, INC.
TYPICAL ELECTRICAL MOTOR DATA

CUSTOMER: AMERCOOL MANUFACTURING

CUSTOMER ORDER NO.: J12094, JOB#1C4120-06

SERIAL NO.: 2048933

TYPE: RGZZESD Totally Enclosed Fan Cooled Severe Duty Premium Efficient

HORSEPOWER: 25.0

VOLTS: 460

PHASE: 3

HERTZ: 60

FRAME: 284T

SYNC. R.P.M.: 1800

F.L. R.P.M.: 1765

EFFICIENCY:	1/2	93.3%
	3/4	93.6%
	F.L.	93.0%

POWER FACTOR:	1/2	72.0%
	3/4	82.0%
	F.L.	87.0%

F.L. AMPS: 29

L.R. AMPS: 183

FULL LOAD TORQUE: 74 lb-ft

STARTING TORQUE: 220% FLT

BREAKDOWN TORQUE: 280% FLT

INSULATION: F

SERVICE FACTOR: 1.0

AMBIENT TEMP: 40 DEGREES C

ACCESSORIES:

AMERCOOL

MANUFACTURING, INC.

P.O. BOX 9310 ♦ Tulsa, OK 74157 ♦ Phone: (918) 445-5366 ♦ Fax: (918) 446-7439

Co: COGC - Resale

Date: 5/1/2001

RECOMMENDED SPARE PARTS LIST AMERCOOL JOB NO. 01C412

Item #	QTY	Description	Net Each	Total Net
001	141	A1051822 Plugs	\$5.00	\$705.00
002	282	CS1813 gasket	\$.50	\$141.00
003	1	108 inch 5 Blade RH Adjustable Pitch Model 335000 2.1875 bore with 0.5000 X 0.2500 keyway	\$1,212.00	\$1,212.00
004	1	2.1875 X 41 Shaft with 0.5000 X 0.2500 Keyway 3.7500 one end 2.1250 other end with keys	\$189.64	\$189.64
005	1	25.0 HP Electric Motor Frame 284T Chem Duty	\$1,800.00	\$1,800.00
006	2	2.1875 SCM FLG Bearings	\$118.00	\$236.00
007	1	Matched set of (5) 3VX1120 V-Belt	\$106.30	\$106.30
008	1	5 groove 3v - 25.00 sheave with 2.1875 bore 0.5000 ks	\$328.06	\$328.06
009	1	5 groove 3v - 6.00 sheave with 1.8750 bore 0.5000 ks	\$66.86	\$66.86
			TOTAL	\$4,784.86

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GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK

CHART NO. MC MP-3000

METER _____

CHART PUT ON

10:00 AM

TAKEN OFF

12:15 PM

LOCATION Atlatope lake #3

REMARKS 24 hr Clock

1-25-10

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