Return Air: 28,700 CFM at 2.00" TSP
{ 0 ft. Alt. (.075 lbs./cu.ft.)}

STATIC PRESSURE ANALYSIS

0.77" E.A. Louver - 1,111 FPM	
0.17" Al. Airfoil Damper - 1,111 FPM	
0.12" Inlet Screen - 2,126 FPM I.V.	
0.09" Plenum Fan Inlet Correction - 2,126 FPM I.V.	
0.85" External Static Pressure - (Available)	
2.00" TOTAL DESIGN STATIC PRESSURE (Given)	

CONDITIONING CAPACITIES

ALL COIL PERFORMANCES HAVE BEEN RATED IN ACCORDANCE WITH A.R.I. STANDARD - 410.

COOLING CAPACITY - WATER

Design Air Flow	- 30,000 C.F.M.
Altitude	- 0 ft. above Sea Level - (.075 lbs./cu.ft.)
Total Cooling Capacity	- 1,292,406 Btu/hr.
Sensible Cooling Capacity	- 1,123,726 Btu/hr.
Entering Air Temperature	- 85.0 deg. D.B., 65.0 deg W.B.
Leaving Air Temperature	- 50.5 deg. D.B., 50.3 deg W.B.
Entering/Leaving Water Temperatures	- 45.0 deg. / 57.0 deg.
Flow Rate Required	- 215 G.P.M.
Water Pressure Drop	- 5.3 ft.
Air Pressure Drop	- 0.76"
Design Face Velocity	- 428.6 F.P.M.

HEATING CAPACITY - WATER

Design Air Flow	- 20,000 C.F.M.
Altitude	- 0 ft. above Sea Level - (.075 lbs./cu.ft.)
Sensible Heating Capacity	- 957,926 Btu/hr.
Entering Air Temperature	- 34.0 deg. D.B.
Leaving Air Temperature	- 78.2 deg. D.B.
Entering/Leaving Water Temperatures	- 180.0 deg. / 104.0 deg.
Flow Rate Required	- 26 G.P.M.
Water Pressure Drop	- 9.8 ft.
Air Pressure Drop	- 0.19"
Design Face Velocity	- 571.4 F.P.M.

CONDITIONING COMPONENTS

SUPPLY FAN ASSEMBLY

- 44" Airfoil Centrifugal Plenum, S.W.S.I., Class II
  1,157 R.P.M., 2,667 inlet velocity, 50.4 B.H.P.
  Protective screen enclosure
  Blower inlet screen
  Amber/Booth - type SWSR seismically restrained vibration isolator for 2" deflection
  Relubrication lines extend to drive side
  Fixed pitch sheaves with O.S.H.A. belt guard

FAN PERFORMANCE HAS BEEN RATED IN ACCORDANCE WITH A.M.C.A. STANDARDS

SUPPLY FAN MOTOR

(CENTURY)

- 60 horsepower, 460/3/60 O.D.P
  1750 R.P.M., High Efficiency type,
  364T frame, slide motor base

COOLING COIL

(16 Gauge Stainless Steel Casing)

- C.W., 8 row,
  5/8" copper tubes, 0.020" tube thickness
  8 aluminum fins per inch, 0.008" fin thickness
  70 total square feet,
  140" fin length x 36" fin height,
  4 pass, 2 required

HEATING COIL

(16 Gauge Stainless Steel Casing)

- H.W., 2 row,
  5/8" copper tubes, 0.025" tube thickness
  8 aluminum fins per inch, 0.008" fin thickness
  35 total square feet,
  140" fin length x 36" fin height,
  6 pass, 1 required

DRAIN PAN

(18 Gauge Stainless Steel)

- **18 gauge stainless steel and insulated**
  (1) 1-1/4 MPT steel drain connection,
  Traps furnished and installed in field "By Others"

PRE-FILTER

- Factory Fabricated Angle rack with
  2" Pleated pre-filters, 30% Eff.
  (Upstream accessible)
  (Filters furnished and installed in field "By Others"

FINAL FILTER

- Factory fabricated holding frames for 12" Final filters, 95% Eff.
- Filters and filter clips furnished and installed in field "By Others"

FILTER EFFICIENCIES ARE RATED IN ACCORDANCE WITH ASHRAE 52-76.

PRE-FILTER GAUGE

- Magnehelic Filter Gauge Dwyer Model 2002-AF

FINAL FILTER GAUGE

- Magnehelic Filter Gauge Dwyer Model 2002-AF

RETURN/EXHAUST AIR SECTION

RETURN FAN ASSEMBLY

- 44" Airfoil Centrifugal Plenum, S.W.S.I., Class II
  818 R.P.M., 2,126 inlet velocity, 16.7 B.H.P.
  Protective screen enclosure
  Blower inlet screen,
  Amber/Booth - type SWSR seismically restrained vibration isolator for 2" deflection,
  Relubrication lines extend to drive side
  Fixed pitch sheaves with O.S.H.A. belt guard

FAN PERFORMANCE HAS BEEN RATED IN ACCORDANCE WITH A.M.C.A. STANDARDS

RETURN FAN MOTOR
(CENTURY)

- 20 horsepower, 460/3/60 O.D.P.
  1750 R.P.M., High Efficiency type,
  256T frame, slide motor base

O.A./R.A./E.A. DAMPERS

- Outside and Exhaust air louvers
  Aluminum Airfoil Dampers, Low Leakage,
  Opposed blade type dampers
  Actuators furnished and installed in field "By Others"
  O.A. damper torque required 85 in.-lbs. per Drive,
  1 Drive shaft, (2 O.A. dampers required)
  R.A. damper torque required 76 in.-lbs. per Drive,
  1 Drive shaft
  E.A. damper torque required 110 in.-lbs. per Drive,
  1 Drive shaft

Temtrol SN29126

PROJECT: RIVERSIDE COMMUNITY HOSPITAL
Riverside, CA

DATE: 09 November 1994

SERIAL NO.: 29126

TAG: AH-6

SOLD TO: A. O. REED & COMPANY
4777 Ruffner Street
San Diego, CA 92111

MODEL NO.: RSA-06-E

NO. OF UNITS: 1

OUTDOOR AIR HANDLING UNIT

S.O. NUMBER: 1886
P.O. NUMBER: 547825

UNIT BEARS THE E.T.L . LABEL

LOOSE PARTS SHIPPED LOOSE WITH UNIT FOR FIELD INSTALLATION

ITEM	QUANTITY	DESCRIPTION
1	50 Ft.	1" x 3/8" Demount Gasket

Version 3.0W
11-09-1994

Job Name: ..... RIVERSIDE COMMUNITY HOSPITAL
Job Location: .....
Sales Eng. (By): ..... Derald Glidewell
Client: .....
Job Tag: ..... AH-6 (SUPPLY FAN)
Contractor: .....
Engineer: .....

OPERATING CONDITIONS

Required Air Flow: ..... 36,000 Cu.Ft./Min
Static Pressure: ..... 5.5 in. WG
Site Elevation: ..... Ft. above SL
Site Air Density: ..... .075 Lb/CuFt

SELECTION

Model: ..... AFSWP 44
Description: ..... SWSI Airfoil Plenum Fan

Wheel Construction Max RPM Ratings

Class I	Class II	Class III
Not Avail.	1,190 RPM	1,495 RPM

Total Operating Static (Adj. for Internal Loss): ..... 5.5 in. WG
Static adjusted to Sea Level....(0.075 Lb/CuFt): ..... 5.5 in. WG
Fan RPM 1,157
Brake HP @ Op. Cond 49.1
BHP with Belt Loss 50.4
Wheel Diameter ..... 44.5 in.
Wheel Construction Req.: II
If 1150 RPM Motor, WR^2 =670

Inlet Velocity ..... 2,667 Ft./Min.
Static Efficiency ..... 63 %
Tip Speed ..... 13,479 FPM
Shaft Size ..... 2 7/16"
If 1750 RPM Motor, WR^2 =289

Sound Power Levels for Inlet or Outlet (Re 10^-12 watts)

Band	1	2	3	4	5	6	7	8
	101	103	102	99	96	93	91	91

Sound Power A-Weighted (Inlet or Outlet) 102

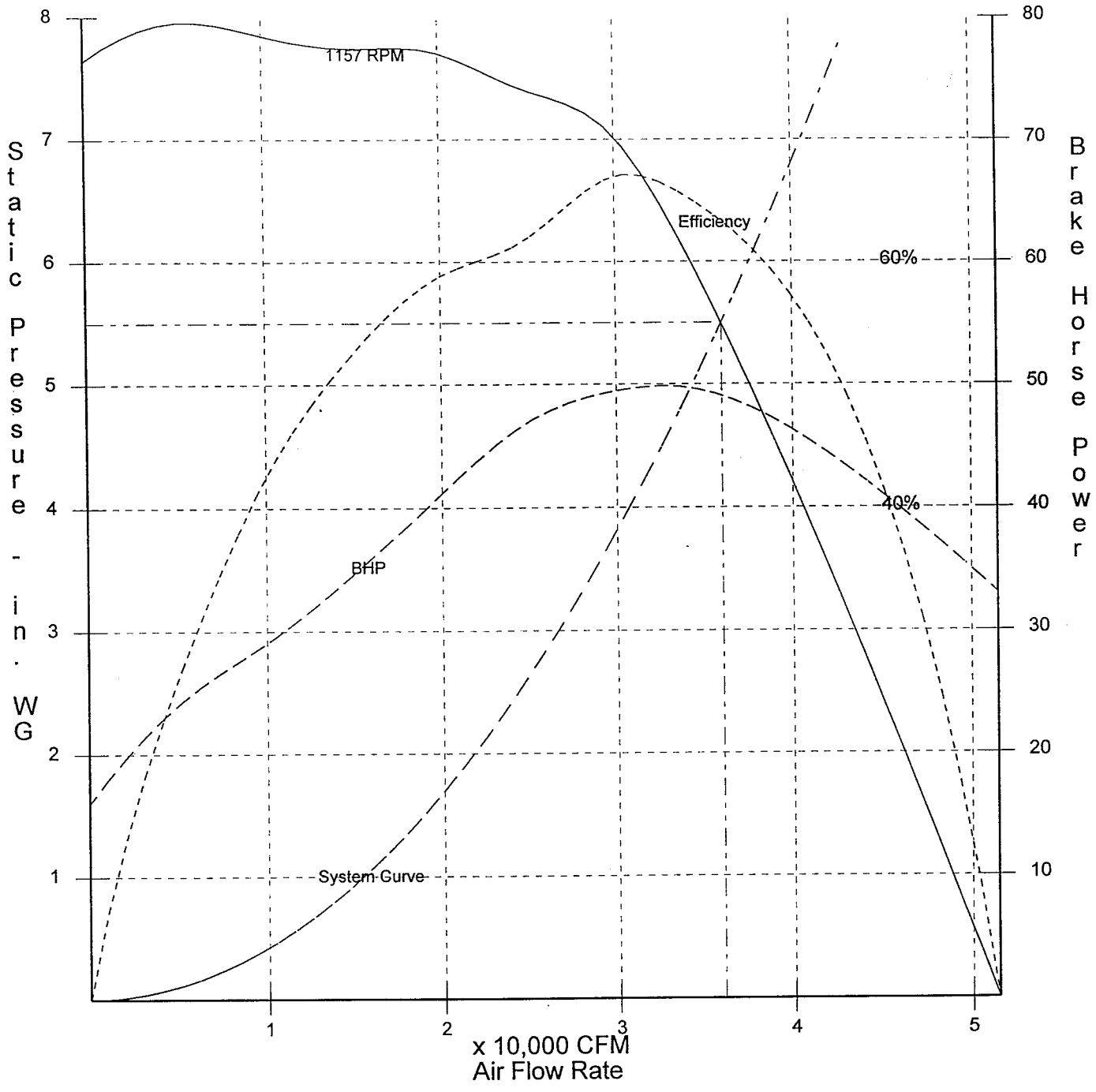
-NOTE- Required Fan Torque checked against MagneTek Motors Only
For other motors, check manufacturer's specifications.

JOB: RIVERSIDE COMMUNITY HOSPITAL/
Tag: AH-6 (SUPPLY FAN)

11-09-1994

AFSWP 44

1,157 RPM: Static corrected to externally observable values



CFM: 36,000
Static: 5.5
Total Static SL: 5.5
Brake HP: 49.1
BHP Corr. for Drive Loss: 50.4

Version 3.0W
11-10-1994

Job Name: ..... RIVERSIDE COMMUNITY HOSPITAL
Job Location: .....
Sales Eng. (By): ..... Derald Glidewell
Client: .....
Job Tag: ..... AH-6 (RETURN FAN)
Contractor: .....
Engineer: .....

OPERATING CONDITIONS

Required Air Flow: ..... 28,700 Cu.Ft./Min
Static Pressure: ..... 2. in. WG
Site Elevation: ..... Ft. above SL
Site Air Density: ..... .075 Lb/CuFt

SELECTION

Model: ..... AFSWP 44
Description: ..... SWSI Airfoil Plenum Fan

Wheel Construction Max RPM Ratings

Class I	Class II	Class III
Not Avail.	1,190 RPM	1,495 RPM

Total Operating Static (Adj. for Internal Loss): ..... 2. in. WG
Static adjusted to Sea Level....(0.075 Lb/CuFt): ..... 2. in. WG
Fan RPM 818
Brake HP @ Op. Cond 16.2
BHP with Belt Loss 16.7
Wheel Diameter ..... 44.5 in.
Wheel Construction Req.: II
If 1150 RPM Motor, WR^2 =335

Inlet Velocity ..... 2,126 Ft./Min.
Static Efficiency ..... 56 %
Tip Speed ..... 9,530 FPM
Shaft Size ..... 2 7/16"
If 1750 RPM Motor, WR^2 =145

Sound Power Levels for Inlet or Outlet (Re 10^-12 watts)

Band	1	2	3	4	5	6	7	8
	95	97	95	92	88	86	84	82

Sound Power A-Weighted (Inlet or Outlet) 95

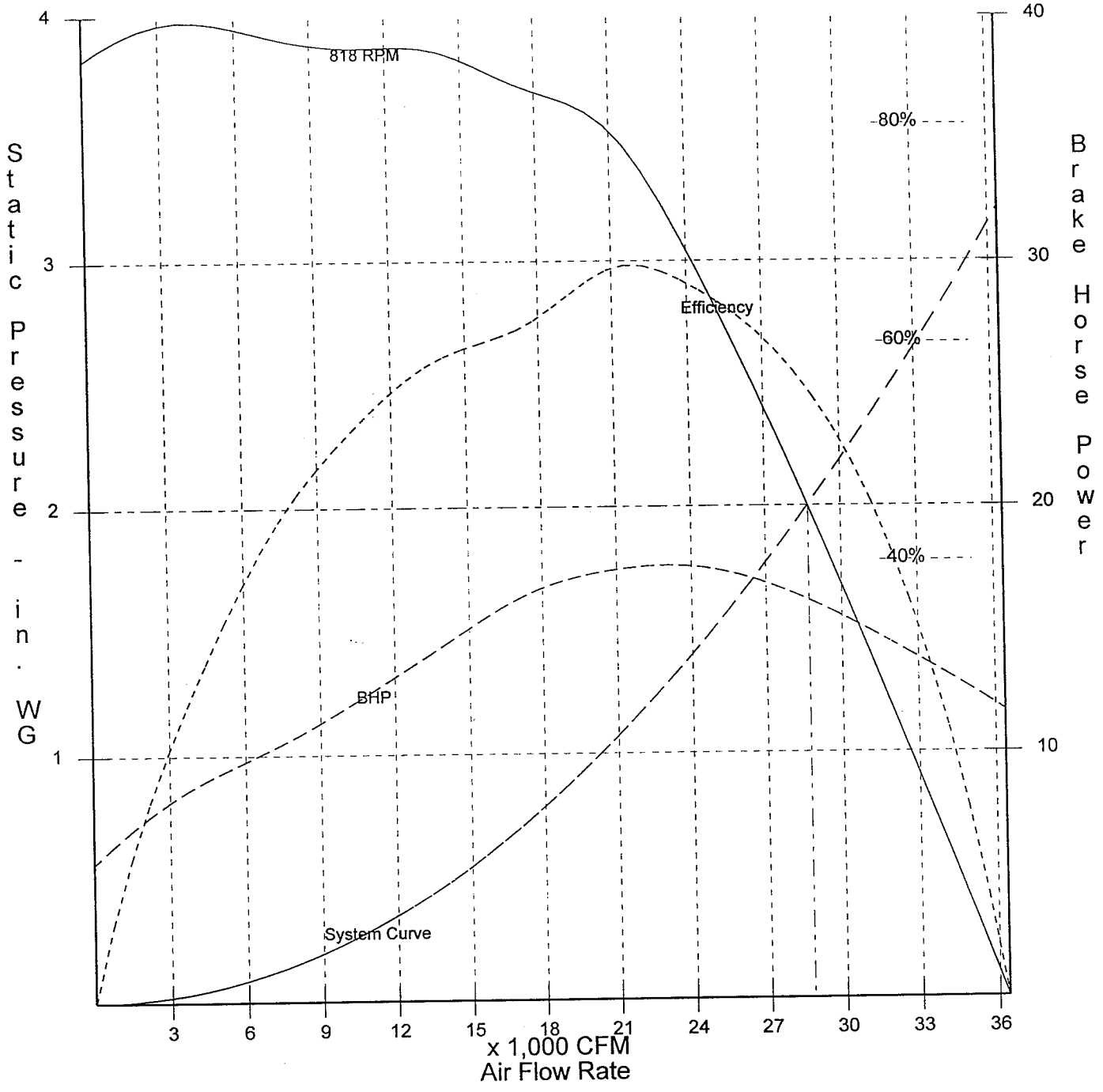
-NOTE- Required Fan Torque checked against MagneTek Motors Only
For other motors, check manufacturer's specifications.

JOB: RIVERSIDE COMMUNITY HOSPITAL/
Tag: AH-6 (RETURN FAN)

11-10-1994

AFSWP 44

818 RPM: Static corrected to externally observable values



CFM: 28,700
Static: 2.
Total Static SL: 2.
Brake HP: 16.2
BHP Corr. for Drive Loss: 16.7

DATE: 11-29-1994

CUSTOMER ID = AH-6 (2-REQ'D.)

PROGRAM ID = WATER COIL RATING / r3.1
APPLICATION = COOLING

	- RATING -
CFM	15000
EDB/EWB	85.0 / 65.0
LDB/LWB	50.5 / 50.3
TH	646203
SH	561863
EWT/LWT	45.0 / 57.0
GPM	107.5
WV	2.4
WPD	5.3
FV	428.6
APD	0.76

FH = 36.000 FL = 140.000 FFO = .000 FFI = .000 ALTD= 0
F.A.= 35.00 FM$ = AL YF = .008 TM$ = CU TT=.020

COIL MODEL# : 5 WC 4- 36x140.0x 8- 8A - RH-LH

*** Manufacturer Certified To ARI As Complying With ARI Std.410***

DATE: 11-30-1994

CUSTOMER ID = AH-6 (1-REQ'D.)

PROGRAM ID = HOT WATER COIL RATING / r3.1
APPLICATION = HEATING

	- RATING -
CFM	20000
EDB	34.0
LDB	78.2
-	-
SH	957926
EWT/LWT	180.0 /104.0
GPM	26.0
WV	3.4
WPD	9.8
FV	571.4
APD	0.19

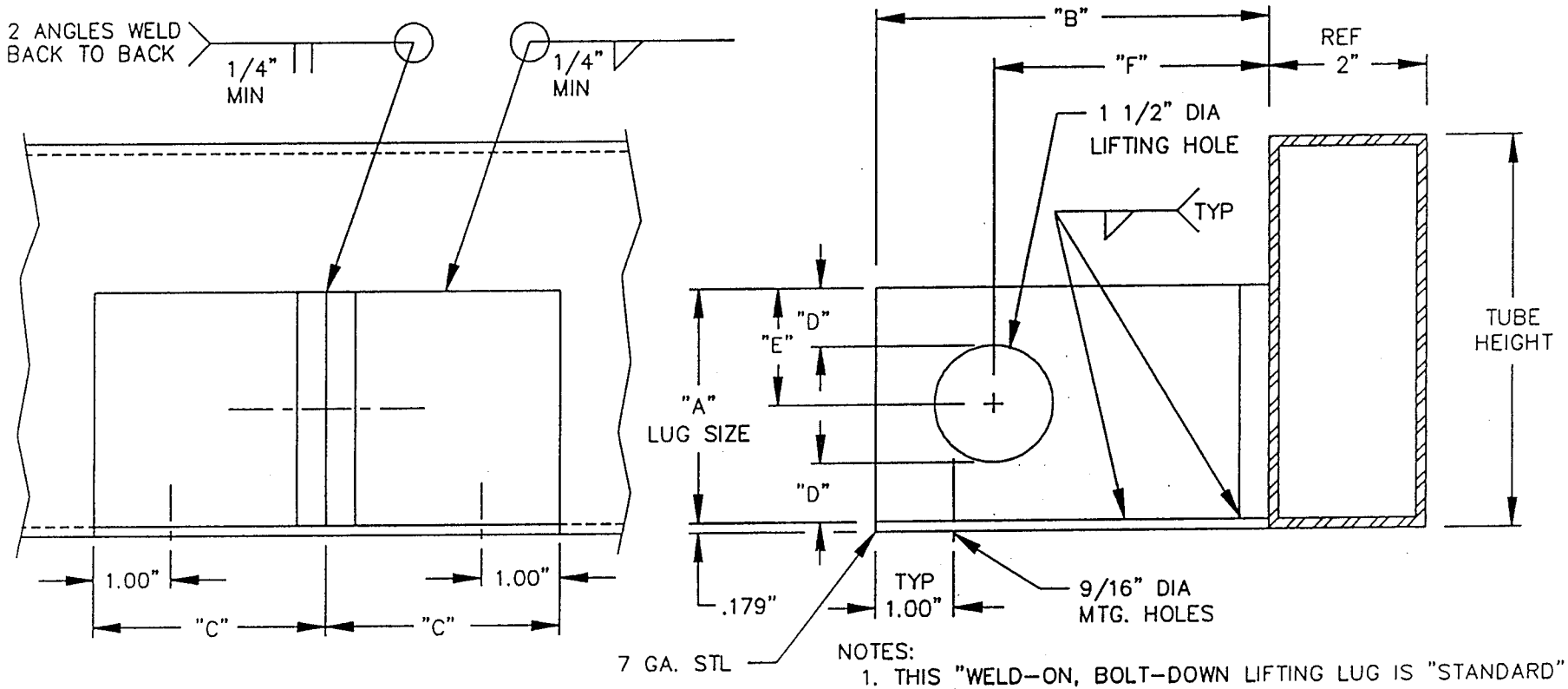
FH = 36.000 FL = 140.000 FFO = .000 FFI = .000 ALTD= 0
F.A.= 35.00 FM$ = AL YF = .008 TM$ = CU TT= .020

MODEL # : 5 WC 6- 36.0x140.0x 2- 8A - RH-LH

*** Manufacturer Certified To ARI As Complying With ARI Std.410***

DWG NO: M1023-50

LUG TYPE	TUBE HEIGHT	LUG SIZE "A"	ANGLE SIZE "B" X "C" X 3/8"	PANEL SIZE	"D"	"E"	"F"	MAX. LIFTING CAPACITY
S	5"	3"	5" X 3" X 3/8"	(NORMAL) 1 1/4" & 2"	3/4"	1 1/2"	3 1/2"	4500 lb
	6"				3/4"	1 1/2"	3 1/2"	4500 lb
T	8"	5"			1 3/4"	2 1/2"	3 1/2"	6500 lb
U	5"	3"	7" X 4" X 3/8"	(EXTENDED) 3" & 4"	3/4"	1 1/2"	5 1/2"	3000 lb
	6"				3/4"	1 1/2"	5 1/2"	3000 lb
V	8"	5"			1 3/4"	2 1/2"	5 1/2"	5500 lb



NOTES:

1. THIS "WELD-ON, BOLT-DOWN LIFTING LUG IS "STANDARD" APPLICATION FOR TUBE BASE FRAMES.
2. REFER TO B-111 SPEC SHEET FOR APPLICATION OF LIFTING LUGS.

REV	AUTHORITY	BY	DATE
B	ADD LUG TYPE & 7 GA. WAS 11	RKW	3-23-94
A	ENGINEERING RELEASE	RKW	11-18-93

RECORD OF REVISIONS

TOLERANCE UNLESS SPECIFIED ON THIS DWG. USE TEMTROL STANDARDS

STANDARD MANUFACTURING DRAWING

Temtrol
A NORTEK COMPANY
15 East Oklahoma Ave. Okarche, OK 73762 (405) 263-7286

TITLE: WELD-ON, BOLT-DOWN LIFTING LUG

DWG NO: M1023-50

STD NO: B-111

BY: RKW DATE: 5-7-92

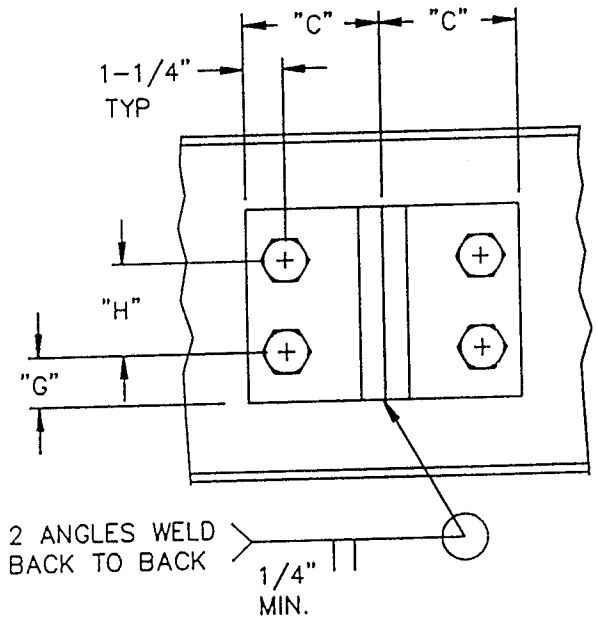
CHK: DATE:

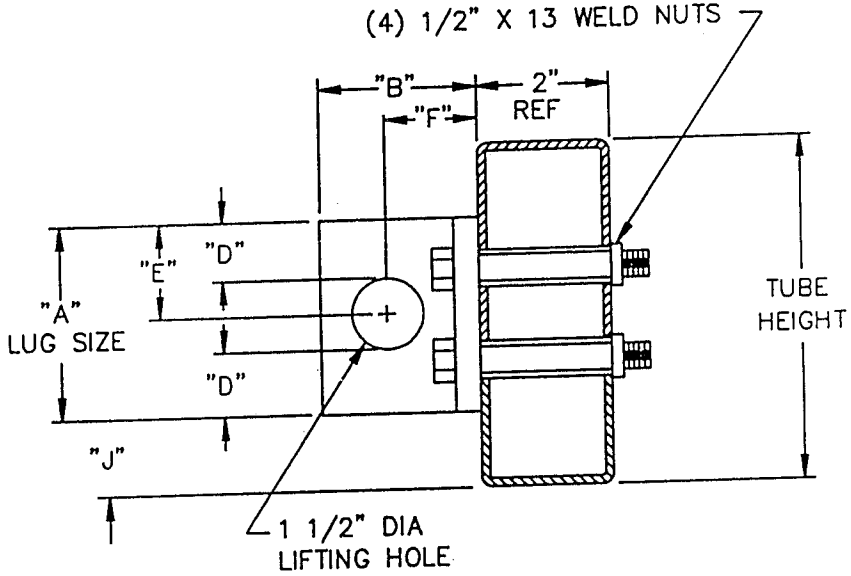
REV: B

Sht 1 of 1

DWG NO: M1023-52

LUG TYPE	TUBE HEIGHT	LUG SIZE "A"	ANGLE SIZE "B" X "C" X 3/8"	PANEL SIZE	"D"	"E"	"F"	"G"	"H"	"J"	MAX. LIFTING CAPACITY
A	5"	3"	5" X 3" X 3/8"	(NORMAL) 1 1/4" & 2"	3/4"	1 1/2"	3 1/2"	3/4"	1 1/2"	1"	3500 lb
B	6"				3/4"	1 1/2"	3 1/2"			2"	3500 lb
C	8"	5"			1 3/4"	2 1/2"	3 1/2"	1"	3"	2"	6000 lb
D	5"	3"	7" X 4" X 3/8"	(EXTENDED) 3" & 4"	3/4"	1 1/2"	5 1/2"	3/4"	1 1/2"	1"	3500 lb
E	6"				3/4"	1 1/2"	5 1/2"			2"	3500 lb
F	8"	5"			1 3/4"	2 1/2"	5 1/2"	1"	3"	2"	6000 lb





NOTES:
1. THIS "BOLT-ON" LIFTING LUG IS "STANDARD" APPLICATION FOR TUBE BASE FRAMES.
2. REFER TO B-111 SPEC SHEET FOR APPLICATION OF LIFTING LUGS.

REV	AUTHORITY	BY	DATE
B	ADDED LUG TYPE & 1/4" TO "J"	RKW	3-24-94
A	ENGINEERING RELEASE	RKW	11-24-93

RECORD OF REVISIONS

TOLERANCE UNLESS SPECIFIED ON THIS DWG. USE TEMTROL STANDARDS

STANDARD MANUFACTURING DRAWING

Temtrol
A NORTEK COMPANY
15 East Oklahoma Ave. Okarche, OK 73762 (405) 263-7286

TITLE: BOLT-ON LIFTING LUG

DWG NO: M1023-52

STD NO: B-111

REV: B

BY: RKW DATE: 5-8-92

CHK: DATE:

Sht 2 of 2