

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

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

HEATING CAPACITY - WATER

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

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



SN29126

PROJECT: RIVERSIDE COMMUNITY HOSPITAL
Riverside, CA

DATE: 09 November 1994

SERIAL NO.: 29126

TAG: AH-6

MODEL NO.: RSA-06-E

NO. OF UNITS: 1

OUTDOOR AIR HANDLING UNIT

UNIT BEARS THE E.T.L. LABEL



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

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

LOOSE PARTS SHIPPED LOOSE WITH UNIT FOR FIELD INSTALLATION

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

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

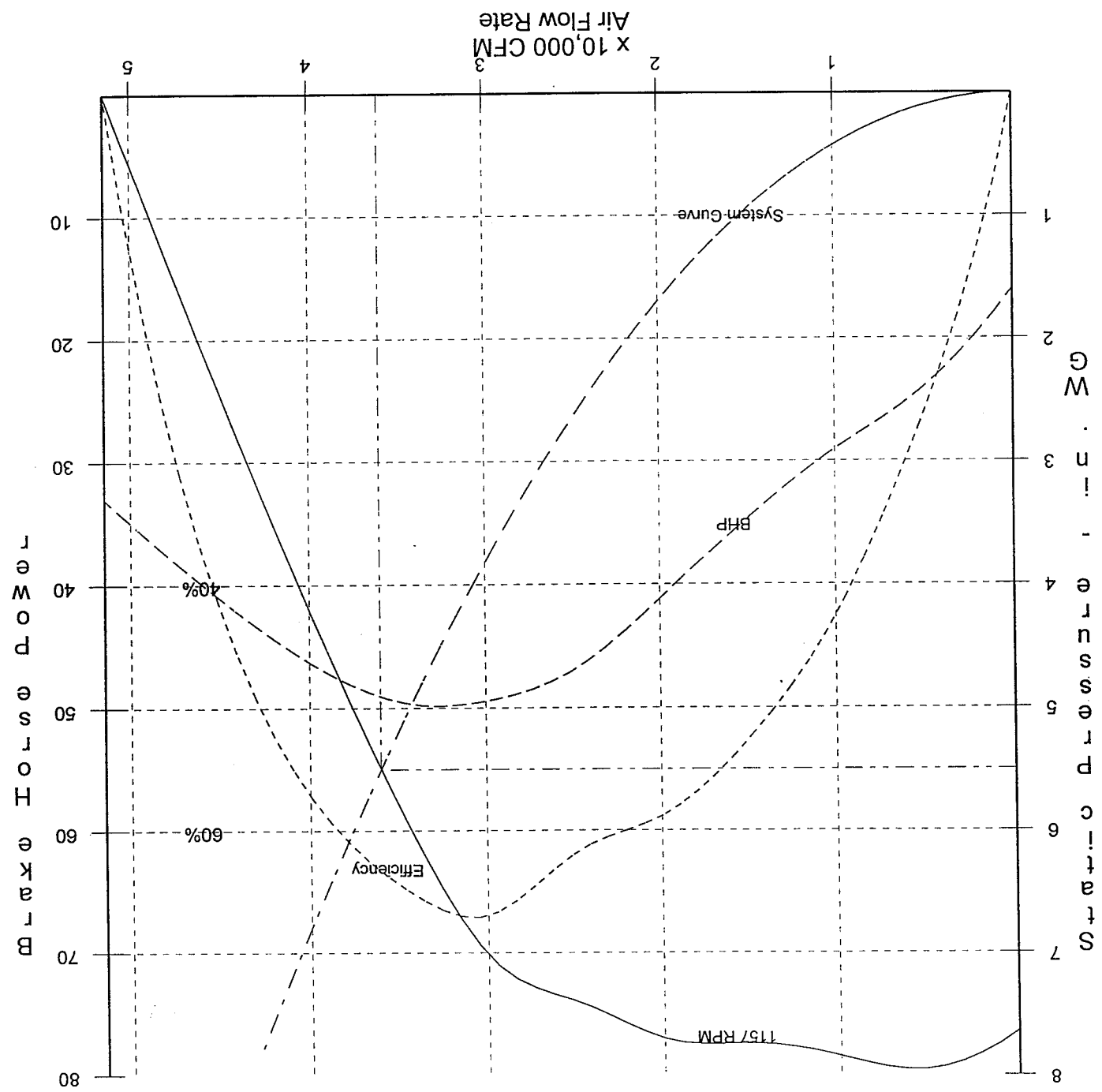
Total Operating Static (Adj. for Internal Loss): 5.5 in. WG
Static adjusted to Sea Level: (0.075 Lb/CuFt): 5.5 in. WG
Fan RPM: 1,157
Brake HP @ Op. Cond: 49.1
BHP with Belt Loss: 50.4
Wheel Diameter: 44.5 in.
Wheel Construction Req.: II
If 1150 RPM Motor, $WR^2=670$
Sound Power Levels for Inlet or Outlet (Re 10⁻¹² watts)
Band 1 101
2 103
3 102
4 99
5 96
6 93
7 91
8 91

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

AFS WP 44

1,157 RPM: Static corrected to externally observable values

11-09-1994



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

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

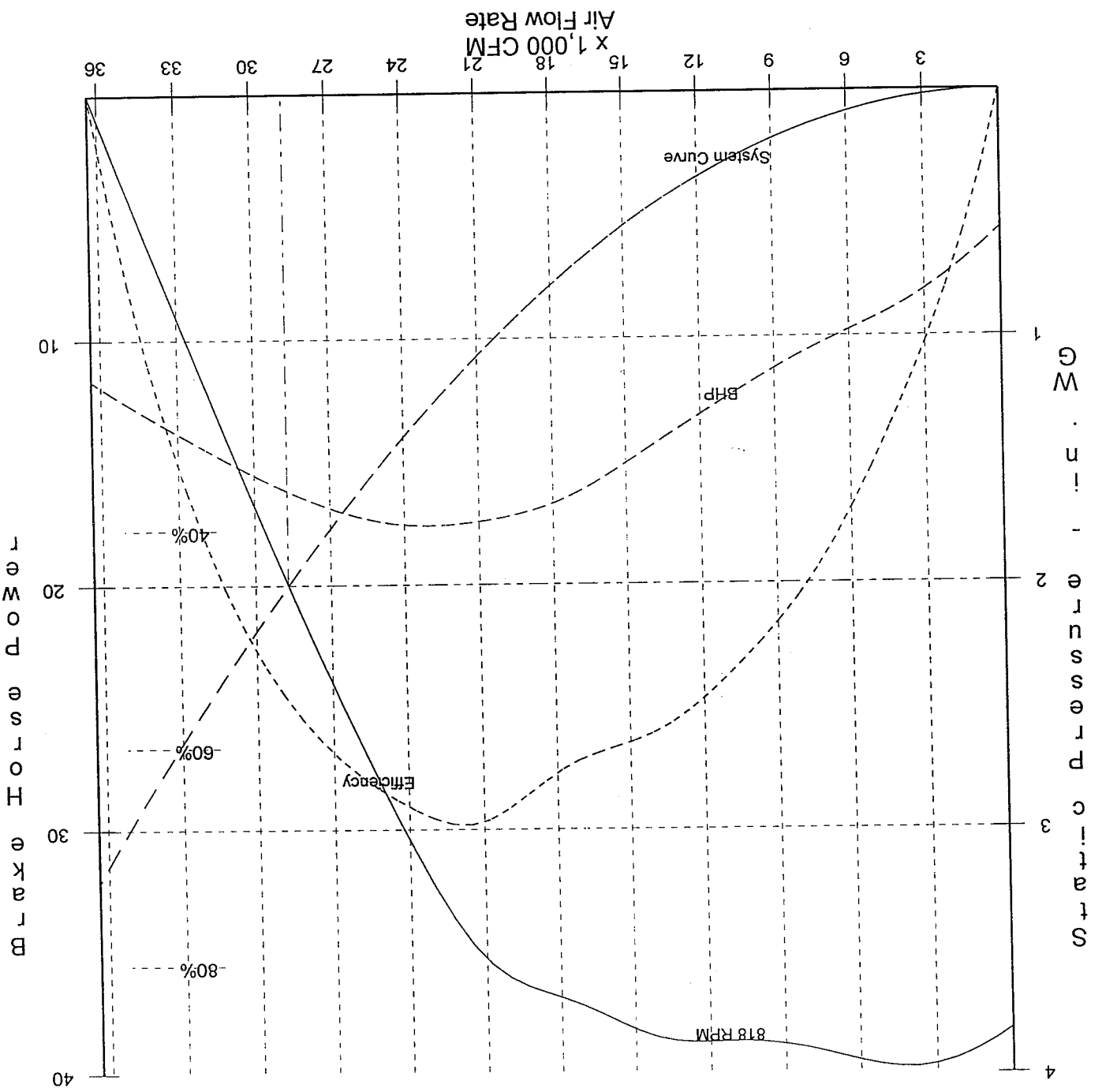
Model: AFSWP 44
Description: SWSI Airfoil Plenum Fan
Class I
Class II
Class III
Not Avail.
Wheel Construction Max RPM Ratings
1,190 RPM
1,495 RPM

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
Inlet Velocity: 2,126 Ft./Min.
BHP with Belt Loss: 16.7
Brake HP @ Op. Cond: 16.2
Wheel Diameter: 44.5 in.
Wheel Construction Req.: 11
If 1150 RPM Motor, WR² = 335
If 1750 RPM Motor, WR² = 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.

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

(2-2EAD)

CUSTOMER ID = AH-6

PROGRAM ID = WATER COIL RATING / R3.1
APPLICATION = COOLING

CFM 15000
DB/EWB 85.0 / 65.0
DB/LWB 50.5 / 50.3
TH 646203
SH 561863
WT/LWT 45.0 / 57.0
GPM 107.5
WV 2.4
WPD 5.3
FV 428.6
APD 0.76

- RATING -

FH = 36.000 FL = 140.000 FFO = .000
F.A. = 35.00 FM\$ = AL YF = .008

FPI = .000
TM\$ = CU

ALTD =
TT = .020
0

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

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

D WE: 11-30-1994

CUSTOMER ID = AH-6

(1-REV'D.)

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

- RATING -

CFM 20000

EDB 34.0

LDB 78.2

SH 957926

NT/LWT 180.0 / 104.0

GPM 26.0

WV 3.4

WPD 9.8

FV 571.4

APD 0.19

FH = 36.000
F.A. = 35.00

FL = 140.000 FM\$ = AL
FFO = .000 YF = .008

FPI = .000 TM\$ = CU

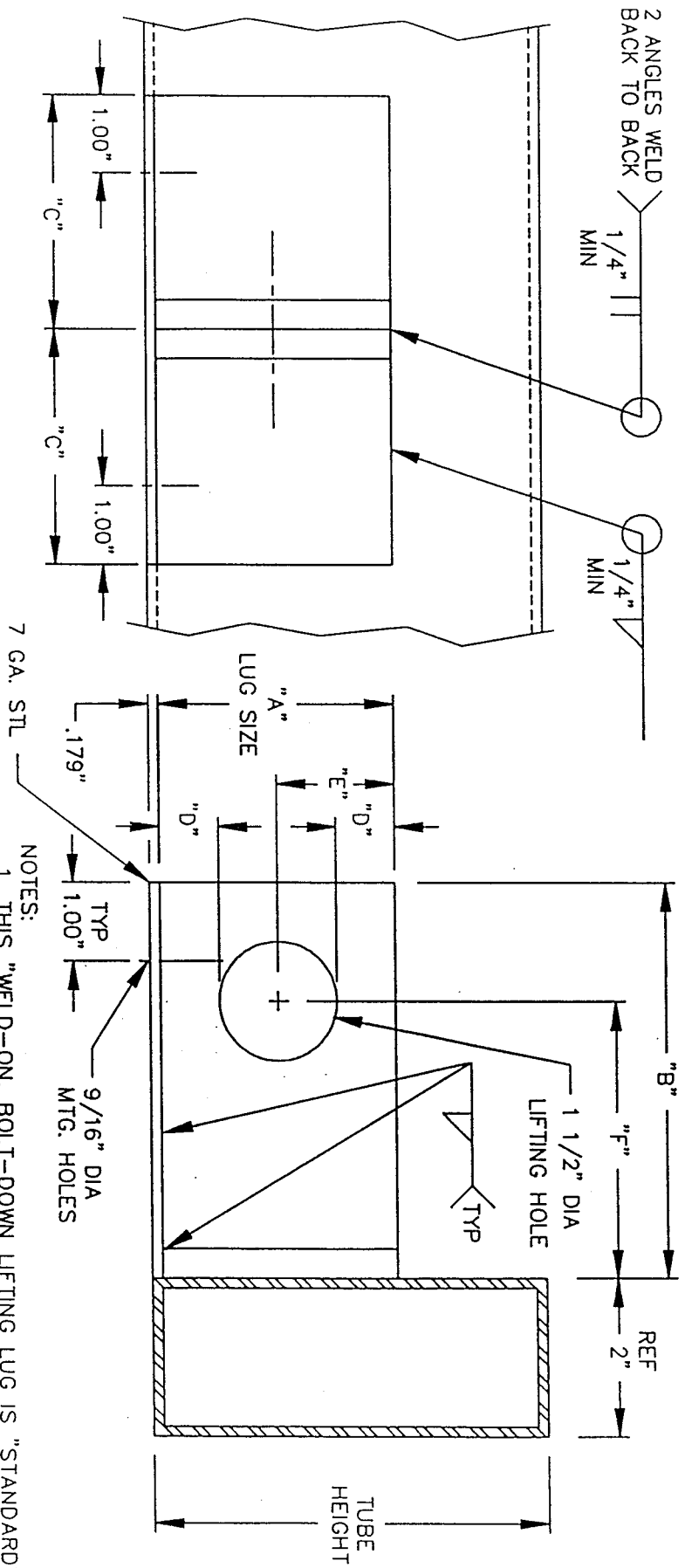
ALTD = 0
TT = .020

RH-LH

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

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

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

B	ADD LUG TYPE & 7 GA. WAS 11	RKY	3-23-94
A	ENGINEERING RELEASE	RKY	11-18-93
REV	AUTHORITY	BY	DATE
RECORD OF REVISIONS			
THIS DRAWING & THE INFORMATION IT CONTAINS IS THE PROPERTY OF TEMTROL. IT IS NOT TO BE REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF TEMTROL.			
STANDARD MANUFACTURING DRAWING			

TOLERANCE UNLESS SPECIFIED ON THIS DWG. USE TEMTROL STANDARDS

Temtrol
A NORTEK COMPANY

15 East Oakton Ave. Omaha, NE 68132 (402) 343-7265

DATE: 5-7-92

REV: B

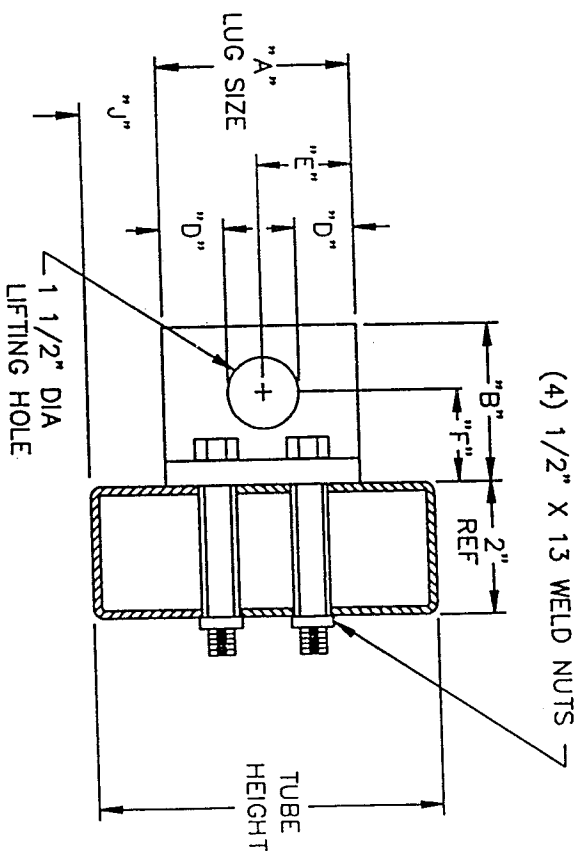
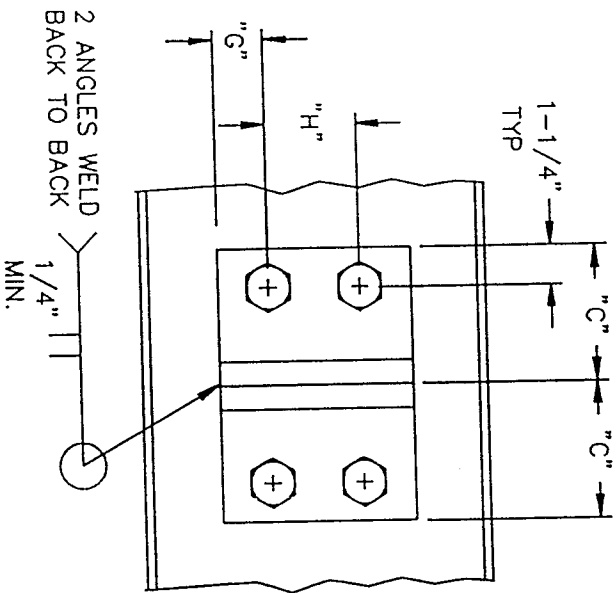
SH: 1 of 1

WELD-ON, BOLT-DOWN LIFTING LUG

STD NO: B-111

REV: B

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

B		ADDED LUG TYPE & 1/4" TO "J"		RKY	3-24-94
A		ENGINEERING RELEASE		RKY	11-24-93
REV		AUTHORITY		BY	DATE
RECORD OF REVISIONS					
THIS DRAWING & THE INFORMATION IT CONTAINS IS THE PROPERTY OF TEMTROL. IT IS NOT TO BE REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF TEMTROL.					
TOLERANCE		UNLESS SPECIFIED ON THIS DWG. USE TEMTROL STANDARDS			
TITLE		BOLT-ON LIFTING LUG			
DWG NO.		M1023-52			
STD NO.		B-111			
REV.		B			
DATE		5-8-92			
SHEET		2 of 2			

STANDARD MANUFACTURING DRAWING

Temtrol
A NORTEK COMPANY
15 East Oakdale Ave. Orem, UT 84057 (408) 241-7265

DWG NO. M1023-52