

J. R. Daniels

AR SERIES ORGAN
EARMARK FOR
#11580, SACRED HEART CATHEDRAL, SAN ANGELO, TEXAS
SPECIFICATIONS FOR AN 11 STOP SERIES 70 ORGAN
TO BE COMPLETED: September 1, 1982

2/15

GENERAL

(1) ORGAN

Great & Pedal Organ
Swell Organ
Wood & Finish
Action
Wind Pressure
Pitch

Exposed, provide enclosures
Standard Design
Rift Sawn Oak to customer's sample
Electro-pneumatic
See Pipe Analysis
A-440 @ 70°F

(2) CONSOLE

Cabinet
Wood & Finish
Manuals
Manual Compass
Pedal Compass
Stop Controls
Action

Special Design with roll top
Rift Sawn Oak to customer's sample
Two & Pedal
CC to C4, 61 notes
CCC to G, 32 notes
Draw Knobs for stops and couplers
All electric with under-key contacts
for stops and couplers.

(3) BLOWER (located below Swell Organ)

Type
Wind
Current Specification
Overall Size

2-P-2118 - 3/4 HP - 1750 RPM - 8" outlet
580 c.f.m. @ 3-1/2"
1 Ph - 60 Cy - 240 Volts - 3.6 Amperes
2' - 9-3/4" x 1' - 10-3/8" x 2' - 6-1/4" high

(4) POWER UNIT (located below Swell Organ)

Rating
Current Specification
Overall Size

DC Output - 10-15 Volts, 30 Amperes
1 Ph - 60 Cy - 120 Volts - 10 Amperes
14-1/2" x 10-3/4" x 7" high

GREAT ORGAN (Exposed)

1	16	Bourdon-----	97 pipes
2	8	Principal -----	73 pipes
3	8	Gedeckt -----from #1-----	61 notes
4	8	Gemshorn -----from #13-----	61 notes
5	4	Octave -----from #2-----	61 notes
6	4	Gedeckt-----from #1-----	61 notes
7	2	Flute -----from #1-----	61 notes
8	II	Sesquialtera TC -----	98 pipes
9	III-IV	Mixture -----	183 pipes
* 10	8	Festival Trumpet -----	61 pipes
11		Tremolo	

SWELL ORGAN (Enclosed)

12	8	Rohrflöte-----	73 pipes
13	8	Gemshorn -----	80 pipes
14	8	Gemshorn Celeste TC -----	49 pipes
15	4	Spitzprincipal -----	73 pipes
16	4	Rohrflöte-----from #12-----	61 notes
17	2	Spitzoctave-----from #15-----	61 notes
18	1-1/3	Larigot -----from #13--(repeat 12 top notes)-----	61 notes
19	1	Zimbel -----from #15--(repeat 12 top notes)-----	61 notes
20	16	Contre Trompette-----	80 pipes
21	8	Trompette-----from #20-----	61 notes
22	4	Clairon -----from #20--(repeat 5 top notes) -----	61 notes
* 23	8	Festival Trumpet--from #10 -----	61 notes
24		Tremolo	

(*) Not affected by couplers or tremolo

PEDAL ORGAN (Exposed)

25	32	Resultant---(1-12 as 10-2/3)--- <i>from #1</i> -----	32 notes
26	16	Principal -----	80 pipes
27	16	Bourdon -----from #1-----	32 notes
28	8	Octave-----from #26-----	32 notes
29	8	Rohrflöte-----from #12-----	32 notes
30	4	Super Octave-----from #26-----	32 notes
31	4	Gedeckt-----from #1 -----	32 notes
32	III	Mixture -----from #26-----	32 notes
33	16	Contre Trompette--from #20-----	32 notes
34	8	Trompette-----from #20-----	32 notes
35	4	Clairon -----from #20-----	32 notes

COUPLERS

36	Great to Pedal
37	Swell to Pedal
38	Swell to Great

ADJUSTABLE COMBINATIONS

Pistons No. 1-2-3-4	Affecting Great Organ
Pistons No. 1-2-3-4	Affecting Swell Organ
Toe Studs No. 1-2-3-4	Affecting Pedal Organ
Pistons No. 1-2-3-4-5-6-7-8	Affecting Full Organ
General Cancel	

PEDAL MOVEMENTS

Great to Pedal reversible
Sforzando reversible with indicator light (red jewel)
32 Resultant reversible
Balanced Expression Pedal - Swell Organ (8 contacts, make to close)
Balanced Crescendo Pedal with indicator light (green jewel)

ACCESSORIES

Motor and power unit on-off switch (toggle type) with indicator light (~~amber jewel~~)
and related wiring.
Concave and radiating pedal keyboard
Organ bench with music shelf
Music rack
Music rack light
Pedal light

HWW/mr
1/20/82

STOP	PITCH	PIPES	PIPE ANALYSIS		MOUTH	METAL	WIND PRESSURE
			SCALE	HALVING			
GREAT ORGAN							
Bourdon	16	97	CCC to BBB Reg. Manual Bourdon			Wood)	
			CC to BB Reg. Artiste Taper Bass			Wood)	3-1/2"
			TC 68	21-1/2	2/9	5 Zinc C.M.)	
Principal	8	73	48	18-1/2	1/4	19 Zinc S.M.)	3-1/2"
Mixture	III-IV	183	See Formula Below				3-1/2"
Sesquialtera TC	II	98	See Formula Below				3-1/2"
Festival Trumpet	8	61	3-1/2"	Reg. Har. @ 2'F#	Zinc & S.M.	C(F) Esch.	5"

<u>SWELL ORGAN</u>							
Rohrflote	8	73	56	21-1/2	2/9	Sm. O.S. Chimneys (19-62) 18 Zinc C.M.	3-1/2"
Gemshorn	8	80	CC 56 C 68-1/2 #56 98	19-1/2 19-1/2 17-1/2	2/9 2/9 1/6	17 Zinc S.M.	3-1/2"
Gemshorn Celeste TC	8	49	56-1/2 @ 8' CC	19-1/2	2/9	5 Zinc S.M.	3-1/2"
Spitzprincipal	4	73	60-2/3	18-1/2	1/4	7 Zinc C.M.	3-1/2"
Contre Trompette	16	80	3" CCC to FF half length FF# up full length			D(F) Eschallots Zinc & S.M.	3-1/2"

<u>PEDAL ORGAN</u>							
Principal	16	80	33/44/57/70	17-1/2	1/4	Zinc	3-1/2"

GREAT III-IV MIXTURE FORMULA

15	12	12	12	12
19	15	15	15	
22	19	19		
	22			

1-37	38-49	50-54	55-56	57-61
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Unison	47 Sc.	17-1/2	1/4 mouth	S.M.
Quint	49 Sc.	17-1/2	1/4 mouth	S.M.

GREAT II SESQUIALTERA TC FORMULA

12	10
17	12

13-56	57-61
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2-2/3	74 Sc. @ #13	17-1/2	2/9 mouth	S.M.	(Pull in 6 scales between 50-61)
1-3/5	82 Sc. @ #13	17-1/2	1/5 mouth	S.M.	(Pull in 6 scales between 45-56, break at 57)

PEDAL III MIXTURE WIRING FORMULA

Rk. #1 plays notes #37-68
 Rk. #2 plays notes #44-75
 Rk. #3 plays notes #49-80