

AR SERIES ORGAN
 EARMARK FOR
 #11725 - ST. GEORGE'S EPISCOPAL CHURCH, BISMARCK, NORTH DAKOTA
 SPECIFICATIONS FOR SERIES 80-15 + CELESTE ORGAN
 TO BE COMPLETED - OCTOBER 1, 1986

GENERAL

(1) ORGAN

Cabinet & Case	Great - Unenclosed - Divided, Provide Case
Wood & Finish	Swell - Standard Design - Silvite cabinet
Action	CASE--Rift Sawn Oak to customer's sample
Wind Pressure	Electro-Pneumatic (unit type)
Pitch	See Pipe Analysis
	A-440 @ 70°F

(2) CONSOLE

Cabinet	Custom Design
Wood & Finish	Rift Sawn Oak to customer's sample
Manuals	Two and Pedal
Manual Compass	CC to C4, 61 notes (5 oz. touch)
Pedal Compass	CCC to G, 32 notes ("S" sharps)
Stop Controls	Walnut Draw Knobs & Maple Tilting Tablets
Action	All electric with under-key contacts

(3) BLOWER (detached)

Type	Ventus 602112 - 1 HP - 3360 RPM
Wind	660 c.f.m. @ 4" - 6" Outlet
Current Specification	3 Phase - 60 Cycles - 240 Volts - 3.1 Amperes
Overall Size	1'-11 1/4" x 1' - 7 1/4" x 1' - 9"

(4) POWER UNIT (Mounted below Swell Organ cabinet)

Rating	DC Output: 10-15 Volts , 30 Amperes
AC Input	1 Phase - 60 Cycles - 240 Volts - 6 Amperes
Overall Size	16-3/4" long x 11" wide x 7-1/4" high

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CONSOLE AND ORGAN

GREAT ORGAN (Unenclosed)

1	16	Pommer -----	97 pipes
2	8	Principal -----	85 pipes
3	8	Holzgedackt -----from #1-----	61 notes
4	8	Gemshorn-----from #19-----	61 notes
5	8	Gemshorn Celeste TC from #20-----	49 notes
6	4	Octave -----	61 pipes
7	4	Gedackt -----from #1-----	61 notes
8	2	Super Octave -----from #2-----	61 notes
9	2	Flöte -----from #1-----	61 notes
10	II Rks.	Sesquialtera TC-----	98 pipes
11	III-IV Rks.	Mixture-----	208 pipes
12	16	Dulzian-----	85 pipes
13	8	Krummhorn-----from #12-----	61 notes
11 A	1V	<i>Scharf - - - - - from #11 repeat top octave</i>	61 Notes

(CONTINUED)

GREAT ORGAN (Unenclosed) (continued)

14	4	Regal-----from #12-----	61 notes
15		Tremolo	
16	8	Trompette enChamade -----	61 pipes
17		Zimbelstern -----	5 bells

SWELL ORGAN (Enclosed)

18	8	Rohrflöte---present pipes #1-73, new top notes-----	80 pipes
19	8	Gemshorn -----	80 pipes
20	8	Gemshorn Celeste TC-----	49 pipes
21	4	Principal-----present pipes-----	73 pipes
22	4	Rohrflöte-----from #18 -----	61 notes
23	2-2/3	Nazard-----from #18-----	61 notes
24	2	Octave-----from #21-----	61 notes
25	1-1/3	Nasat-----from #19, repeat top octave-----	61 notes
26	1	Klein Oktave-----from #21, repeat top octave-----	61 notes
27	16	Contre Trompette -----	85 pipes
28	8	Trompette-----from #27-----	61 notes
29	4	Clairon-----from #27-----	61 notes
30		Tremolo	
* 31	8	Trompette enChamade--from #16-----	61 notes

PEDAL ORGAN

32	32	Untersatz-----See wiring schematic-----	32 notes
33	16	Principal-----12 pipes, 20 from #2-----	32 notes
34	16	Pommer -----from #1-----	32 notes
35	8	Octave-----from #2-----	32 notes
36	8	Rohrflöte-----from #18-----	32 notes
37	4	Choralbass -----from #2-----	32 notes
38	4	Gedackt -----from #1-----	32 notes
39	III	Mixture-----from #11-----	32 notes
40	32	Reed Cornet----See Wiring Schematic -----	32 notes
41	16	Contre Trompette ---from #27-----	32 notes
42	16	Dulzian-----from #12 -----	32 notes
43	8	Trompette-----from #27-----	32 notes
44	4	Krummhorn-----from #12-----	32 notes
* 45	8	Trompette enChamade-from #16-----	32 notes

(*) Not affected by couplers, cancels other stops on Swell only when drawn on Swell. (Swell may couple to Great and Pedal).

COUPLERS

46	Great to Pedal 8
47	Swell to Pedal 8
48	Swell to Great 8
49	Swell to Great 4
50	Great to Great 4

ADJUSTABLE COMBINATIONS

Solid State - Four Memories

Pistons No. 1-2-3-4-5-6	Affecting Great
Pistons No. 1-2-3-4-5-6	Affecting Swell
Toe Studs No. 1-2-3-4-5-6	Affecting Pedal
Pistons No. 1-2-3-4-5-6-7-8-9-10	Affecting Full Organ - duplicated by toe stud
General Cancel	
Setter Piston	
Combination Lock (brass finish)	
Combination selector(brass knob)	

PEDAL MOVEMENTS

Great to Pedal Reversible	(duplicated by manual piston)
Swell to Pedal Reversible	(duplicated by manual piston)
Zimbelstern Reversible	
Tutti Reversible	(duplicated by manual piston) with indicator light
Balanced Expression Pedal - Swell Organ	
Balanced Crescendo Pedal with indicator light	

ACCESSORIES

Concave, radiating pedal clavier	
Organ bench with music shelf	
Transparent music rack with light)	
Pedal light	) Lights to be controlled by motor switch
Motor, blower and action power unit of ample capacity	
Concealed motor switch (lock type) with indicator light	
"Signal" indicator light	

PIPE ANALYSIS

STOP	PITCH	PIPES	SCALE	HALVING	MOUTH	REMARKS	WIND PRE
<u>GREAT ORGAN</u>							
Pommer	16	97	CCC to BB Reg. Man. Bourdon CC to BB Reg. Art. Tapered Bass TC 68	21-1/2	2/9	Wood Wood 5 Zinc CM	3-1/2
Principal	8	85	45	17-1/2	1/4	19 Zinc SM	3-1/2
Octave	4	61	58	18-1/2	1/4	7 Zinc SM	3-1/2
Sesquialtera	II	98	See Formula Below				
Mixture	III-IV	208	See Formula Below				
Dulzian	16	85	2" Reg. Lift Lid 1/2 length			Zinc & ^{CM} SM	3-1/2
Trompette enChamade 8		61	^{3"} CC 2-3/4" #1-12 1/2 L, C 2-3/4" ^{3"} FL, Reg. Har. 1 ^C Bronze ^{30-1/2} B(F) Esch. 4-1/2 ^{3 1/2}				
<u>SWELL ORGAN</u>							
Rohrflöte	8	80 #1-73 present #74-80 new				12 Zinc SM	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 SM	3-1/2
Gemshorn Celeste TC	8	49	56-1/2 @ CC	19-1/2	2/9	5 Zinc SM	3-1/2
Principal	4	73 present				5 Zinc SM	3-1/2
Contre Trompette	16	85	3" CCC to FF half length FF# up full length			D(F) Eschallots Zinc & SM	3-1/2
<u>PEDAL ORGAN</u>							
Principal	16	12	33	17-1/2	1/4	Zinc	3-1/2

GREAT II SESQUIALTERA TC FORMULA

12	10
17	12
13-56	57-61

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

GREAT III-IV MIXTURE FORMULA

22	19	15	12	12	12	12
26	22	19	15	15	15	
29	26	22	19	19		
	29	26	22			
1-12	13-18	19-30	31-49	50-54	55-56	57-61

Unison 47 Sc. 17-1/2 1/4 mouth S.M.
 Quint 50 Sc. 17-1/2 1/4 mouth S.M.

PEDAL ORGAN32 Untersatz Wiring Schematic

#1-12 plays #1-12 Great 16 Pommer
 #1-12 plays #8-19 Great 16 Pommer
 #13-32 plays #1-20 Great 16 Pommer

32 Reed Cornet Wiring Schematic

6-2/5 notes #1-12 plays Swell 8 Rohrflöte #5-16
 4-4/7 notes #1-12 plays Swell 8 Rohrflöte #11-22
 3-5/9 notes #1-12 plays Swell 8 Rohrflöte #15-26
 notes #13-32 plays Swell 16 Contre Trompette #1-20