

AR SERIES ORGAN
EARMARK FOR
#11718 - BETHLEHEM BAPTIST CHURCH, ONEIDA, TENNESSEE
SPECIFICATIONS FOR SERIES 80-12 + & 80-4+ ORGAN
TO BE COMPLETED - SEPTEMBER 1, 1986

3/24
GENERAL

(1) ORGAN

Cabinets Two (2) Required

Wood & Finish
Action
Wind Pressure
Pitch

Great - Exposed & Divided - Provide Enclosures
Swell & Choir - Silvite Cabinets, Chamber installation
Standard Design
Great Enclosures - to customer's wood & finish sample
Electro-Pneumatic (unit type)
See Pipe Analysis
A-440 @ 70°F

(2) CONSOLE

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

Custom Design *on movable platform*
To customer's wood & finish sample
Three and Pedal
CC to C4, 61 notes, 4 oz. touch
CCC to G, 32 notes
Draw Knobs & Tilting Tablets
All Electric with under-key contacts

(3) BLOWER (located in blower space)

Type
Wind
Current Specification
Overall Size

Kinetic 3-P-2722 - 1-1/2 H.P. - 1165 RPM
800 c.f.m. @ 4" - 10" Outlet *240*
3 Phase - 60 Cycles - ~~208~~ *240* Volts - ~~16~~ *6.1* Amperes
4'-10" x 2'-4" x 3'-1"

(4) POWER UNIT (Mounted outside Choir Organ)

Rating
AC Input
Overall Size

DC Output: 10-15 Volts, 50 Amperes *9*
1 Phase - 60 Cycles - ~~120~~ *240* Volts - ~~16~~ Amperes
23-1/2" long x 15-1/2" wide x 10-1/2" high

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CONSOLE AND ORGAN *9*

GREAT ORGAN (Exposed) Manual II

1	16	Bourdon-----	92 pipes
2	8	Principal-----	80 pipes
3	8	Bourdon -----from #1-----	61 notes
4	4	Octave -----	61 pipes
5	4	Flute -----from #1-----	61 notes
6	2	Super Octave-----from #2--(repeat 5 top notes)-----	61 notes
7	2	Flute -----from #1--(repeat 5 top notes)-----	61 notes
8	II Rks.	Sesquialtera TC -----	98 pipes
9	III-IV Rks.	Mixture -----	208 pipes
10	8	Trompette -----from #21-----	61 notes
11		Chimes---Mayland bells and action, relay, transformer and volume control, G to G, #20-44,-----	25 bells

SWELL ORGAN (Enclosed) Manual III 5

12	8	Principal-----#1-12 from 13-14-17-----	73	pipes
13	8	Rohrflöte-----	73	pipes
14	8	Gemshorn -----	80	pipes
15	8	Gemshorn Celeste TC-----	49	pipes
16	4	Spitzprincipal-----from #12-----	61	notes
17	4	Rohrflöte -----from #13-----	61	notes
18	2	Octavin -----from #12-----	61	notes
19	1-1/3	Larigot-----from #14--(repeat top octave)-----	61	notes
20	1	Klein Principal-----from #12--(repeat top octave)-----	61	notes
21	16	Contra Trompette-----	80	pipes
22	8	Trompette -----from #21-----	61	notes
23	4	Clairon -----from #21--(repeat 5 top notes)-----	61	notes
24		Tremolo		

CHOIR ORGAN (Enclosed) Manual I 9

25	8	Geigen Principal-----	85	pipes
26	8	Gedeckt-----	80	pipes
27	8	Celeste T.C.-----	49	pipes
28	4	Octave -----from #25-----	61	notes
29	4	Gedeckt-----from #26-----	61	notes
30	2	Principal-----from #25-----	61	notes
31	III-IV Rks.	Scharf -----	208	pipes
32	8	Schalmei-----	61	pipes
33		Tremolo		
34	8	Festival Trumpet TC-----	49	pipes
35		Zimbelstern -----	5	bells

(*) Not affected by couplers

PEDAL ORGAN 1

36	32	Untersatz-----See Wiring Schematic-----	32	notes
37	16	Contra Bass -----	80	pipes
38	16	Bourdon-----from #1-----	32	notes
39	16	Gedeckt-----12 pipes, 20 from #26-----	32	notes
40	8	Octave -----from #37-----	32	notes
41	8	Bourdon -----from #1-----	32	notes
42	4	Choralbass-----from #37-----	32	notes
43	4	Flute-----from #1-----	32	notes
44	III Rks.	Mixture-----from #37-----	32	notes
45	32	Reed Cornet-----See Wiring Schematic-----	32	notes
46	16	Contre Trompette-----from #21-----	32	notes
47	8	Trompette-----from #21-----	32	notes
48	4	Clarion-----from #21-----	32	notes

COUPLERS

49	Great to Pedal	57	Great to Choir
50	Swell to Pedal	58	Swell to Choir
51	Choir to Pedal	59	Swell to Choir 4
52	Choir to Pedal 4	60	Great Unison Off
53	Swell to Great	61	Swell 4
54	Swell to Great 4	62	Choir Unison Off
55	Choir to Great	63	Choir 4
56	Choir to Great 4		

ADJUSTABLE COMBINATIONS (Solid State)

Pistons No. 1-2-3-4	Affecting Great
Pistons No. 1-2-3-4	Affecting Swell
Pistons No. 1-2-3-4	Affecting Choir
Toe Studs No. 1-2-3-4	Affecting Pedal
Pistons No. 1-2-3-4-5-6	Affecting Full Organ (duplicated by toe studs)
General Cancel	
Setter Button	
Combination Lock	

PEDAL MOVEMENTS

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

ACCESSORIES

Concave, radiating pedal clavier with "S" Sharps
Organ bench with music shelf and bench blocks
Transparent music rack with light
Light for pedal clavier
Roll top
Motor, blower and action power unit of ample capacity
Key operated motor switch with indicator light

GENERAL

Supports for exposed mechanism by Church.
Panelwork for exposed mechanism by M. P. Moller, Inc.

AEN/mr
3/26/86

PIPE ANALYSIS

STOP	PITCH	PIPES	SCALE	HALVING	MOUTH	REMARKS	WIND PRESS
<u>GREAT ORGAN</u> (Exposed)							
Bourdon	16	92	CCC to BBB Reg. Man. Bourdon CC 56 44	21-1/2	2/9	29 Wood 17 Zinc S.M.	3-1/2
Principal	8	80	45	17-1/2	1/4	19 Zinc S.M.	3-1/2
Octave	4	61	58	18-1/2	1/4	7 Zinc S.M.	3-1/2
Mixture	III-IV	208	See Formula "A"				
Sesquialtera	II	98	See Formula "B"				
<u>SWELL ORGAN</u> (Enclosed)							
Principal	8 TC	73	60-2/3	18-1/2	1/4	7 Zinc C.M.	3-1/2
Rohrflöte	8	73	56	21-1/2	2/9	18 Zinc C.M. Sm I.S. Chimneys #19-62 Pull in 8 scales between #62 & 73	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	19-1/2	2/9	5 Zinc S.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>CHOIR ORGAN</u> (Enclosed)							
Geigen Principal	8	85	45-3/4	17-1/2	1/4	19 Zinc S.M.	3-1/2
Gedeckt	8	80 73	CC to BB Reg. Art. Tapered Bass C Reg. Artiste Treble			Wood & S.M. #1-4 #5 up	4-1/2 3-1/2
Celeste TC	8	49	56 68	19-1/2	2/9	5 Zinc S.M.	3-1/2
Schalmei	8	61	CC 2-1/16"	#1-6 1/2 length Lift Lid Oboe		Zinc & S.M. D(F) Eschallots	3-1/2
Scharf	III-IV	208	See Formula "C"			S.M.	3-1/2
Festival Trumpet TC	8	49	2-3/4" @ 4'C Reg.			Zinc & S.M. C(F) Eschallots	3-1/2
<u>PEDAL ORGAN</u>							
Contra Bass	16	80	33/43/56/69/82/95	17-1/2	1/4	29 Zinc S.M.	3-1/2
Gedeckt	16	12	R.M.B.			Wood	4-1/2

MIXTURE FORMULASGREAT ORGAN

III-IV Rks. Mixture Formula "A" 208 pipes S.M. 3-1/2"

19	15	12	8	8	8	12
22	19	15	12	12	12	
26	22	19	15	15		
	26	22	19			
1-12	13-24	25-36	37-49	50-54	55-56	57-61
Unison	46 Sc. @ 8'	17-1/2	1/4			
Quint	49 Sc. @ 8'	17-1/2	1/4			

II Rks. Sesquialtera TC Formula "B"

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)

CHOIR ORGAN

III-IV Rks. Scharf Formula "C" 208 pipes S.M. 3-1/2"

22	19	15	12	12	12	12
26	22	19	15	15	15	
29	26	22	19	19		
	29	26	22			
1-12	13-30	31-42	43-49	50-54	55-56	57-61
Unison	52 Sc. @ 8'	17-1/2	1/4			
Quint	52 Sc. @ 8'	17-1/2	1/4			

32 UNTERSATZ WIRING SCHEMATIC

#1-12 plays #1-12 16 Pedal Bourdon
 #1-12 plays #8-19 16 Pedal Bourdon
 #13-32 plays #1-20 16 Pedal Bourdon

32 REED CORNET WIRING SCHEMATIC

#1-12 plays #17-28 16 Pedal Gedeckt
 #1-12 plays #23-34 16 Pedal Gedeckt
 #1-12 plays #27-38 16 Pedal Gedeckt
 #13-32 plays #1-20 16 Contre Trompette

PEDAL III MIXTURE WIRING SCHEMATIC

2 15th #1-32 plays #37-68 16 Pedal Principal
 1-1/3 19th #1-32 plays #44-75 16 Pedal Principal
 1 22nd #1-32 plays #49-80 16 Pedal Principal