

AR SERIES ORGAN
EARMARK FOR

#11720 - ST. PAUL'S UNITED METHODIST CHURCH, MANCHESTER, PENNSYLVANIA
SPECIFICATIONS FOR SERIES 80-12 + ORGAN
TO BE COMPLETED - MAY 1, 1986

GENERAL

(1) ORGAN

Great & Pedal Organs	Exposed - Provide enclosures
Swell Organ	Chamber installation. Layout will be provided
Wood & Finish	Birch - to customer's sample for enclosures
Action	Electro-Pneumatic (unit type)
Wind Pressure	See Pipe Analysis
Pitch	A-440 @ 70°F

(2) CONSOLE

Cabinet	Standard Design
Wood & Finish	Rift Sawn Oak, to customer's sample for console
Manuals	Two and Pedal
Manual Compass	CC to C4, 61 notes
Pedal Compass	CCC to G, 32 notes
Stop Controls	Tilting Tablets
Action	All Electric with under-key contacts

(3) BLOWER TWO (2) Required (located in Blower Room in each organ space)

Type	Style 2-P-2116 - 1/2 H.P. - 1750 RPM
Wind	Left 320 cfm @ 4" - 6" outlet
	Right 160 cfm @ 4"
Current Specification	1 Phase - 60 Cycles - 240 Volts - 3.6 Amperes
Overall Size	2' - 5-3/4" x 1' - 10-3/8" x 2' - 3-1/4"

(4) POWER UNIT (Mounted in right blower room)

Rating	DC Output: 10-15 Volts, 30 Amperes
AC Input	1 Phase - 60 Cycles - 120 Volts - 10 Amperes
Overall Size	16-3/4" long x 11" wide x 7-1/4" high

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CONSOLE AND ORGAN

GREAT ORGAN (Exposed)

1	8	Principal-----	80 pipes
2	8	Gedeckt-----	80 pipes
3	8	Gemshorn -----from #13-----	61 notes
4	4	Octave-----from #1-----	61 notes
5	4	Gedeckt-----from #2-----	61 notes
6	2	Super Octave-----from #1--(repeat 5 top notes)-----	61 notes
7	2	Flute -----from #2--(repeat 5 top notes)-----	61 notes
8	II Rks.	Sesquialtera TC -----	98 pipes
9	III-IV Rks.	Mixture -----	208 pipes
10		Chimes....present Deagan 'M' bells and action, new relay, transformer and volume control -----	25 bells
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 top octave)-----	61 notes
19	1	Klein Octave-----from #15--(repeat top octave)-----	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		Tremolo	

PEDAL ORGAN

24	32	Untersatz-----See wiring schematic-----	32 notes
25	16	Principal-----12 pipes, 20 from #1-----	32 notes
26	16	Bourdon-----12 pipes, 20 from #2-----	32 notes
27	8	Principal-----from #1-----	32 notes
28	8	Rohrflöte-----from #12-----	32 notes
29	4	Octave-----from #1-----	32 notes
30	4	Gedeckt-----from #2-----	32 notes
31	III Rks.	Mixture-----from #9-----	32 notes
32	32	Reed Cornet-----See wiring schematic-----	32 notes
33	16	Contre Trompette--from #20-----	32 notes
34	4	Clairon -----from #20-----	32 notes

COUPLERS

35	Great to Pedal
36	Swell to Pedal
37	Swell to Great

ADJUSTABLE COMBINATIONS

Pistons No. 1-2-3-4
General Cancel

Affecting Full Organ

PEDAL MOVEMENTS

Balanced Expression Pedal - Swell Organ (8 contacts, make to close)
Balanced Crescendo Pedal with indicator light (green jewel)

ACCESSORIES

Concave, radiating pedal clavier
Organ bench with music shelf
Transparent music rack with light
Pedal light
Motor and power unit on-off switch (lock type) with indicator light (amber jewel) and related electrical wiring.
Pedal light

PIPE ANALYSIS

STOP	PITCH	PIPES	SCALE	HALVING	MOUTH	REMARKS	WIND PRES
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GREAT ORGAN

Bourdon	8	80	CC 56	21-1/2	2/9	17 Zinc CM	3-1/2
Principal	8	80	45	17-1/2	1/4	19 Zinc SM	3-1/2
Mixture	III-IV	208	See Formula Below				
Sesquialtera	II	98	See Formula Below				

SWELL ORGAN

Rohrflöte	8	73	56	21-1/2	2/9	18 Zinc CM	3-1/2
				Sm. I.S. Chimneys #19-62			
				Pull in 12 scales between #62 & 73			
Gemshorn	8	80	CC 56	19-1/2	2/9	17 Zinc SM	3-1/2
			C 68-1/2	19-1/2	2/9		
			#56 98	17-1/2	1/6		
Gemshorn Celeste TC	8	49	56-1/2 CC	19-1/2	2/9	5 Zinc SM	3-1/2
Spitzprincipal	4	73	60-2/3	18-1/2	1/4	7 Zinc CM	3-1/2
Contre Trompette	16	80	3" CCC to FF half length FF# up full length			D(F) Eschallots Zinc & SM	3-1/2

PEDAL ORGAN

Principal	16	12	33	17-1/2		Zinc	3-1/2
Bourdon	16	12	Reg. Man. Bdn.			Wood	3-1/2

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	SM
Quint	49 Sc.	17-1/2	1/4 mouth	SM

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)

32 UNTERSATZ WIRING SCHEMATIC

#1-12 plays #1-12 16 Pedal Bourdon
#1-12 plays #9-19 16 Pedal Bourdon
#13-32 plays #1-20 16 Pedal Bourdon

32 REED CORNET WIRING SCHEMATIC

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