

M. P. MÖLLER Organ Factory

3-35

Revised 1/9/70
May 29, 1969

Pipe Organ No. 10652 Date _____
For MANSFIELD STATE COLLEGE, MANSFIELD, PENNSYLVANIA
Action Pitman Type Electro-Pneumatic Console Detached. Movable-All Electric
Casing No. None Finish As Per Sample
Decorations None Motor 3 H.P. Style 3-P-3027
Width of Key-bed Standard Stop Controls Draw Knobs
No. Manuals THREE Wind Pressure 2-3/4"
To be Completed April 1, 1970 Blower Pipe furnished by Purchaser

PITCH: A-440

SPECIFICATIONS

GREAT ORGAN 9

1.	8'	Prinzipal.....48.....18-1/2.....12 Zinc S.M.....61 pipes
2.	8'	Spitzflöte.....48-2/3...18-1/2.....12 Zinc S.M.....61 pipes
3.	4'	Oktav.....59.....18-1/2.....S.M.....61 pipes
4.	2'	Oktav.....74.....19-1/2.....S.M.....61 pipes
5.	1-1/3'	Mixtur IV.....Formula "A"..17-1/2.....S.M....244 pipes
6.	8'	Trompete.....3".....Double Trebles..... 66 ^{56 reeds} pipes

UD

SWELL ORGAN (Enclosed) 11

7.	8'	Salizional.....52.....18-1/2.....12 Zinc S.M.....61 pipes
8.	8'	Rohrflöte.....54.....21-1/2.....S.M.....61 pipes
9.	4'	Prinzipal.....59.....18-1/2.....S.M.....61 pipes
10.	4'	Waldflöte.....53-2/3...19-1/2.....S.M.....61 pipes
11.	2'	Gemshorn.....70-2/3...18-1/2.....S.M.....61 pipes
12.	2-2/3'	Sesquialtera II...Formula "B"..20-1/2.....S.M....122 pipes
13.	2/3'	Scharf III.....Formula "C"..18-1/2.....S.M....183 pipes
14.	8'	Hautbois.....3".....Reg. Open Oboe.....61 pipes
15.		Tremulant

POSITIV ORGAN 6

16.	8'	Holzgedackt...Reg. Stopped Flute Bass & Treble, Wood.....61 pipes
17.	4'	Koppelflöte.....64.....20-1/2.....S.M.....61 pipes
18.	4'	Prinzipal.....59.....17-1/2.....S.M.....61 pipes
19.	2'	Blockflöte.....66-3/4...20-1/2.....S.M.....61 pipes
20.	1-1/3'	Larigot.....78-2/3...20-1/2.....S.M.....61 pipes
21.		Blank
22.	8'	Krummhorn.....1".....61 pipes
23.		Tremulant

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PEDAL ORGAN 9

24	16'	Subbass..... Reg. Ped. Bdn.....	Wood.....	32 pipes
25.	8'	Oktavbass.....	47.....18-1/2.....	12 Zinc S.M.....32 pipes
26.	8'	Gedackt.....	52.....20-1/2...Pommer.....	S.M.....32 pipes
27.	4'	Choralbass.....	58.....18-1/2.....	S.M.....32 pipes
28.		Blank		
29.	2'	Mixtur III.....	Formula "D"..17-1/2r.....	S.M.....96 pipes
30.	16'	Posaune....	CCC 3-3/4"...CC 2-15/16"..1/2 length	Reg.....32 pipes
31.	4'	Trichter Regal....	2-1/2"...Reg.....	32 pipes

COUPLERS

32.	Great to Pedal 8'
33.	Positiv to Pedal 8'
34.	Swell to Pedal 8'
35.	Swell to Great 16'
36.	Swell to Great 8'
37.	Great Unison Off
38.	Positiv to Great 8'
39.	Swell to Positiv 16'
40.	Swell to Positiv 8'
41.	Positiv Unison Off
42.	Great to Positiv 8'

ADJUSTABLE COMBINATION PISTONS (capture type)

Great	1-2-3-4-5-6	(thumb)
Swell	1-2-3-4-5-6	(thumb)
Positiv	1-2-3-4-5-6	(thumb)
Pedal	1-2-3-4-5-6	(toe)
General	1-2-3-4-5-6	(thumb and toe)
General Cancel		
Adjuster		

REVERSIBLE PISTONS

Great to Pedal	(thumb and toe)
Swell to Pedal	(thumb and toe)
Full Organ	(toe)

BALANCED PEDALS

Crescendo on all stops and couplers
Swell expression

INDICATOR LIGHTS

Crescendo
Wind
Full Organ

ACCESSORIES

Cables to be detachable near console and storage provided within movable console platform.

JHH/mr
Revised 1/9/70
Salesman: H.M.R. Jr.

MIXTURE FORMULASGREAT ORGAN

IV Rks. Mixtur Formula "A"

19	15	12	8	8
22	19	15	12	12
26	22	19	15	15
29	26	22	19	15
1-12	13-24	25-36	37-48	49-61

Unison 46 @ 8' CC 17-1/2 1/4 mouth S.M.
 Quint 47 @ 8' CC 17-1/2 2/9 mouth S.M.

SWELL ORGAN

II Rks. Sesquialtera Formula "B"

12	12
17	15
1-50	51-61

12th 2-2/3' 66-3/4 scale 20-1/2 2/9 mouth S.M.
 15th 2' 74 scale 20-1/2 2/9 mouth S.M.
 17th 1-3/5' 76-2/3 scale 20-1/2 1/5 mouth S.M.

III Rks. Scharf Formula "C"

22	19	15	12	8
26	22	19	15	12
29	26	22	19	15
1-18	19-36	37-48	49-55	56-61

Unison 48 @ 8' CC 18-1/2 1/4 mouth S.M.
 Quint 49 @ 8' CC 18-1/2 1/4 mouth S.M.

PEDAL ORGAN

III Rks. Mixtur Formula "D"

2' 15th 69 scale 17-1/2 1/4 mouth S.M.
 1-1/3' 19th 77 scale 17-1/2 2/9 mouth S.M.
 1' 22nd 81 scale 17-1/2 1/4 mouth S.M.

GENERAL

The organ is to be installed in the organ space at the right of the stage. No decorative woodwork nor exposed pipes are to be provided by the builder.

The details of construction given below are to be strictly observed.

DETAILS OF CONSTRUCTION

1. All woods used in the construction of the organ shall be clear and sound, air cured and kiln-dried to contain not more than 6% moisture and shall be properly stress relieved.

2. The Sills, Groundframes and General Building Frames shall be of sound clear oak, African or Honduras mahogany fir, California pine, white pine, sugar pine or Idaho pine, so constructed as to eliminate all vibration noise and to possess a safety margin of at least 50% above the calculated loads.

3. Chests shall be constructed of the finest African or Honduras mahogany, Sugar pine or equal.

All multi-stop chests shall allow expansion and contraction with humidity changes.

Chests shall be of "pitman" type having an individual valve for each note and a "floating" pitman.

Borings or channeling wherever existing shall be sealed airtight by soaking in shellac, hot varnish or similar sealer and the bidder shall state the method to be used.

The bidder shall establish that adequate provisions are made in the chest design to permit quick repetition of notes with all stops drawn. The bidder shall also submit detailed layout drawings showing that adequate access to all chests and pipes for service will be provided.

Offset reeds and all flue pipes below 8' pitch shall be provided with separate offset chests together with adequate and separate winding. Each pipe so played shall have its own individual magnet, primary and valve, operated by separate relay, contact box or direct key contact and no offset chest shall be operated by air impulse through pneumatic tubing or similar devices.

4. The Swell Box shall be complete with top, sides and back as well as shutter front of builder's standard construction. The swell box and shutters shall be the same color as the decorative woodwork and finished in two coats of hot-sprayed lacquer.

Swell shutters shall be of the vertical type and must open to 90 degree angle. One edge of the shutters shall be fitted with virgin wool felt to insure good closure.

5. Reservoirs and/or Schwimmers may be used for pressure regulation. In each case the size and location of each wind pressure regulating device shall be specified on the layout drawing to be submitted for approval. The intention is that there be no pressure drop under any conditions normally experienced and should such appear after the installation of the organ, the Builder shall remedy such pressure variation before approval of final payment.

6. The Console shall be all electric. It shall be laid out according to American Guild of Organists' recommendations.

The stops and couplers shall be controlled by draw knobs in angled jambs.

The console case, the organist's bench and the pedal-board shall be of oak, stained to match the decorative woodwork and finished with two coats of hot-sprayed lacquer. The console shall be placed on a movable platform on large heavy duty casters so that it may be moved easily about the stage. It shall be provided with additional cable, the cables being encased in a suitable protective covering to prevent any damage. Organ bench shall have crank type height adjustment.

The interior of the console such as the coupler board, jambs, key cheeks, etc. shall be of African or Honduras mahogany with a hand rubbed, flat finish in walnut color to provide a harmonious contrast with the exterior casework.

The music rack shall be of tempered plate glass, of the hinged adjustable type, in coupler board with built-in music light.

The console will be provided with a roll-top and lock and a start-and-stop switch for the blower.

Keys shall be of 8-cut (approximately 1/8" thick) slab elephant ivory, without break or joint and with bevelled edges. They shall be equipped with tracker touch (as recommended by the American Guild of Organists) of 4 oz. initial and 2-1/2 oz. holding pressure.

All manual and pedal contacts both sides of all circuits shall be of sterling silver, so mounted that there will be a positive rubbing self-cleaning action. German silver, phosphor bronze or other like substitutes are not acceptable.

Capture type combination action, settable by means of an adjuster button shall be provided.

7. The Electrical System - The Electrical system shall comply with the rules of the National Board of Fire Underwriters. Organ cables shall be plastic insulated and plastic jacketed to provide moisture-proof, flame resistant installation.

Feed and return wires shall be extra heavy and shall not be included within the main cable, but may run through the same conduit.

All cables connected at junctions shall be supported and tied, in addition to being cleated to frames throughout the organ.

8. PIPES

A. Metal Flue Pipes - whether manual or pedal, from a length of 4' and shorter actual length (therefore from 8' C in stopped ranks) shall be of "spotted metal" having not less than 45% tin content. Basses and pipes having an actual length longer than 4' shall be of spotted metal, electrolytic zinc, or copper and bidder shall provide a list of the metals by stop for the bass pipes intended in his quotation.

Where spotted metal is provided, the sheet shall be planed on the inside (thick side) surface to provide uniform thickness.

B. Wood Flue Pipes - The Subbass 16' (stop No. 24) shall be of oak, stained to match the decorative woodwork and finished with two coats of hot-sprayed lacquer.

C. Reed Pipes - There shall be 56 reeds in each manual reed stop and 32 reeds in each Pedal reed stop. The chorus and semi-chorus reeds (stops No. 6, 14 and 30) shall have resonators of spotted metal from 4' C through high G, and basses of electrolytic zinc with spotted metal bells at least 1/3 the length of the resonator. The Krummhorn (stop No. 22) shall be all-copper or all-spotted metal.

All reed shallots shall be of the open, parallel low pressure type. These may have domed ends, flat ends or retreating backs and should be designed for maximum variation in color. The "English" type tapered or filled shallot is not acceptable. Leaded or leathered facings are not acceptable.

D. General - All pipes are to be made capable of voicing and regulation without nicking on pressures not to exceed 2-3/4".

All mixtures shall be on "common wind" and regulation slides under each rank, or switches cutting off a rank of mixture at a time, are not permitted.

No "stock voiced" pipes are permitted and the Builder shall voice and finish all ranks in the recital hall.

9. The organ builder shall supply a Blower and Motor of ample capacity to operate on 208 Volts, 60 Cycles, 3 Phase, A.C. current. He shall also supply an adequate and heavily filtered Rectifier to operate on the same current or on 208 Volt, 60 Cycle, single phase A.C. current. The college will supply a suitable magnetic motor starter and overload protection switch and the electrical connections to the blower, motor and rectifier.