

Duke University Chapel
Durham, North Carolina

1785 (IV)121

Contract: 21 October 1930 for \$62,880 (Display Pipes for \$2,300)

Altered by Aeolian-Skinner in 1948 as their opus 1159

Antiphonal removed to storage when a Flentrop Organ was installed

Specifications of Opus 1785

Great (Flues on 6" Wind and Reeds on 12" Wind)

1.	32' Quintaton	50 Scale, Metal, Tenor C, No Bass Octave	61 Pipes
2.	16' Diapason	30 Scale, 2/9 Mouth	73 Pipes
3.	16' Bourdon	From Pedal 16' Bourdon	73 Pipes
		Extended 29 Pipes	
4.	8' First Diapason	38 Scale, 1/5 Mouth	73 Pipes
		Extra heavy lips on zincs, Treble Pipes leathered	
5.	8' Second Diapason	40 Scale, 2/9 Mouth	73 Pipes
6.	8' Third Diapason	42 Scale, 1/4 Mouth	73 Pipes
7.	8' Gemshorn	C	73 Pipes
8.	8' Principal Flute	44 Scale, 2/9 Mouth, Harmonic	73 Pipes
		Spotted Metal	
9.	8' Doppel Flute	Reg.	73 Pipes
10.	5-1/3 Quint	53 Scale, Replaced by a 4' Prestant	73 Pipes
11.	4' Octave	52 Scale, Spotted Metal	73 Pipes
12.	4' Principal	54 Scale	73 Pipes
13.	4' Flute	56 Scale, 2/9 Mouth, Harmonic	73 Pipes
		in Choir Box	
14.	3-1/5 Tenth	60 Scale, Tapered Diapason	73 Pipes
15.	2-2/3 Twelfth	65 Scale, Special Metal	61 Pipes
16.	2' Fifteenth	70 Scale, Special Metal	61 Pipes
17.	V Harmonics		305 Pipes
18.	III-IV Plein Jeu	Special	268 Pipes
		22 12 1 5	
		26 15 5 1	
		29 19 8 5	
		22 12 8	
		15 12	
		15	
		1st Break: 18 Notes x 3 ranks= 54 Pipes	
		2nd Break: 19 Notes x 4 ranks= 76 Pipes	
		3rd Break: 6 Notes x 5 ranks= 30 Pipes	
		4th Break: 18 Notes x 6 ranks= 108 Pipes	
19.	16' Contra Tromba	Trumpet 10" scale, In Choir Box	73 Pipes
20.	8' Tromba	Tuba 5-1/2" Scale, In Choir Box	73 pipes
21.	4' Octave Tromba	Trumpet 4" Scale, In Choir Box	73 Pipes

Swell (Flues on 6" Wind, Chorus Reeds on 10" Wind)

22.	16' Bourdon	24, Wood	73 Pipes
23.	8' Diapason	42 Scale, 2/9 Mouth	73 Pipes
24.	8' Geigen Diapason	45 Scale, Special Metal	73 Pipes
25.	8' Rohrflute	Reg. "Voice Full"	73 Pipes
26.	8' Flauto Dolce	Spitzflöte	73 Pipes
27.	8' Flute Celeste	Spitzflöte Celeste (Tenor C)	61 Pipes
28.	8' Cor de Nuit (A)	48 Scale, Reg.	73 Pipes
29.	8' Gamba	Viole 57 Scale	73 Pipes
30.	8' Gamba Celeste	Viole Vox 57 Scale	73 Pipes
31.	8' Salicional	58 Scale	73 Pipes

Swell Cont'd

32.	8' Voix Celeste	Vox 58 Scale	73 Pipes
33.	4' Octave	54 Scale	73 Pipes
34.	4' Fugara (B)	Violina 70 Scale	73 Pipes
35.	4' Flute Triangulaire	Reg.	73 Pipes
36.	2-2/3 Nazard (C)	Chimney Flute	61 Pipes
37.	2' Piccolo	Reg. Harmonic	61 Pipes
38.	2' Flautino (D)	Reg. Piccolo	61 Pipes
39.	1-3/5' Tierce (E)	Dulciana 57 Scale at 8' CC	61 Pipes
40.	V Chorus Mixture	Special W.C 4, (Same as Op. 1580)	305 Pipes
41.	V Cornet	Draws A-B-C-D-E	61 Notes
42.	16' Posaune	Trumpet 8" Scale (10" Wind)	73 Pipes
43.	8' Cornopean	Trumpet 5" Scale (10" Wind)	73 Pipes
44.	8' French Trumpet	Reg.	73 Pipes
45.	8' Oboe	Full Length, 1/2 Capped	73 Pipes
46.	8' Vox Humana	Reg.	73 Pipes
47.	4' Clarion	Trumpet Clarion 3-1/2" Scale (10" Wind)	73 Pipes
48.	Tremolo		

Choir (6" Wind)

49.	16' Gamba	48 Scale to Metal on #57 (Originally noted as 45 Scale, Mild)	73 Pipes
50.	8' Diapason	44 Scale, 2/9 Mouth	73 Pipes
51.	8' Concert Flute	Reg.	73 Pipes
52.	8' Viole d'Orchestre	60 Scale	73 Pipes
53.	8' Viol Celeste	Vox 60 Scale	73 Pipes
54.	8' Dulciana	57 Scale	73 Pipes
55.	8' Dulciana Celeste	Vox 57 Scale	73 Pipes
56.	8' Quintadena	Synthetic, (Draws Nos. 53 & 58)	73 Notes
57.	4' Flute Harmonic	Reg.	73 Pipes
58.	4' Violina	69 Scale	73 Pipes
59.	2-2/3 Nazard	Reg. Chimney Flute	61 Pipes
60.	2' Piccolo	Reg. Harmonic	61 Pipes
61.	1-3/5 Tierce	Reg. Chimney Flute	61 Pipes
62.	1-1/7 Septieme	E Scale, Gemshorn	61 Pipes
63.	16' Fagotto	5" Scale	73 Pipes
64.	8' Trumpet	Trumpet 4-1/2" Scale	73 Pipes
65.	8' Corno di Bassetto	Bell Clarinet, Striking Reed	73 Pipes
66.	8' Orchestral Oboe	Reg.	73 Pipes
67.	Tremolo		

Solo (Flues 10" Wind, Chorus Reeds 15" Wind)

68.	8' Stentorphone	38 Scale, 1/5 Mouth	73 Pipes
69.	8' Flauto Mirabilis	Philomela with beard	73 Pipes
70.	8' Gamba	57 Scale	73 Pipes
71.	8' Gamba Celeste	57 Scale	73 Pipes
72.	4' Octave	52 Scale	73 Pipes
73.	4' Orchestral Flute	Tapered Flute	73 Pipes
74.	V Mixture	Duplicate of 1726 Solo Mixture	305 Pipes
75.	16' Tuba	Tuba 10" Scale (15" Wind)	73 Pipes
76.	8' Tuba	Tuba 5" Scale	73 Pipes
77.	8' Tuba Mirabilis	Tuba Mirabilis 5" Scale (25" Wind)	73 Pipes
78.	8' French Horn	Reg.	73 Pipes
79.	8' English Horn	Reg.	73 Pipes
80.	4' Clarion	Tuba Clarion 3-1/2" Scale	73 Pipes
81.	Tremolo		

Echo-Antiphonal (6" Wind)

(Stops marked * are enclosed in Echo expression chamber)

Antiphonal Division

82.	16' Bourdon	18 Scale, Wood	73 Pipes
83.	8' First Diapason	40 Scale, 2/9 Mouth	73 Pipes
84.	8' Second Diapason	52 Scale, 1/4 Mouth	73 Pipes
85.	8' Gedeckt*	37 Scale	73 Pipes
86.	8' Salicional*	58 Scale	73 Pipes
87.	4' Harmonic Flute*	Reg.	73 Pipes
88.	V Cornet	4' Octave- 56 Scale Geigen 2-2/3' Twelfth- 66 Scale Geigen 2' Fifteenth- 72 Scale Geigen 1-1/3' Nineteenth- 80 Scale Tapered 1' Twenty Second- 88 Scale Geigen	305 Pipes
89.	8' Tromba*	Tuba 5' Scale	73 Pipes

Echo Division

90.	8' Gedeckt	From Antiphonal	73 Notes
91.	8' Viole	60 Scale	73 Pipes
92.	8' Viole Celeste	Vox 60 Scale	73 Pipes
93.	8' Salicional	From Antiphonal	73 Notes
94.	8' Salicional Celeste	Vox 58 Scale (Tenor C)	61 Pipes
95.	4' Harmonic Flute	From Antiphonal	73 Notes
96.	8' Oboe	Full Length, no caps	73 Pipes
97.	8' Vox Humana	Reg.	73 Pipes

Pedal (Flues 6" Wind, Chorus Reeds 15" Wind)

98.	32' Diapason	02 Scale, 12 stopped pipes	32 Notes
99.	16' Diapason	10 Scale	44 Pipes
100.	16' Diapason	From Great	32 Notes
101.	16' Contra Bass	Diapason 15, Bearded	32 Pipes
102.	16' Bourdon	11	56 Pipes
103.	16' Gamba	From Choir	32 Notes
104.	16' Echo Lieblich	From Swell	32 Notes
105.	10-2/3' Quint	From 16' Bourdon	32 Notes
106.	8' Principal	40 Scale, 2/9 Mouth	32 Pipes
107.	8' Octave	From 16' Diapason (#99)	32 Notes
108.	8' Gedeckt	From 16' Bourdon (#102)	32 Notes
109.	8' Still Gedeckt	From Swell 16' Bourdon	32 Notes
110.	5-1/3' Twelfth	From 16' Bourdon (#102)	32 Notes
111.	4' Flute	From 16' Bourdon (#102)	32 Notes
112.	V Harmonics	Diapason Scale, 2/9 Mouth, 2 ply metal 5-1/3' Twelfth- 46 Scale at 8' CC 4' Fifteenth- 44 Scale at 8' CC 3-1/5' Seventeenth- 48 Scale at 8' CC 2-2/3' Nineteenth- 46 Scale at 8' CC 2' Twenty Second- 46 Scale at 8' CC	160 Pipes
113.	32' Bombarde	12 Pipes, From 16' Trombone (#115)	32 Notes
114.	32' Fagotto	12 Pipes, From Choir 16' Fagotto (6" Wind)	32 Notes
115.	16' Trombone	10" Scale (15" Wind)	68 Pipes
116.	16' Tuba	From Solo	32 Notes
117.	16' Fagotto	From Choir	32 Notes
118.	10-2/3 Quint Trombone	From Great 16' Tromba	32 Notes
119.	8' Trombone	From 16' Trombone (#115)	32 Notes
120.	4' Clarion	From 16' Trombone (#115)	32 Notes
121.	Chimes	From Solo	

Echo-Antiphonal Pedal (6” Wind)

122.	16’ Diapason	28 Scale, Metal	32 Pipes
123.	16’ First Bourdon	15	32 Pipes
124.	16’ Second Bourdon	From Antiphonal	32 Notes
125.	8’ Flute	From Antiphonal	32 Notes

Percussion Instruments

126.	8’ Harp	In Choir Box with Dampers Playable on Great and Swell Manuals	61 Bars
127.	4’ Celesta	Extension of Harp with Dampers Playable on Choir and Solo Manuals	
128.	Chimes	In Solo Box with Dampers Playable on Great, Swell, Choir, Solo and Pedal	25 Tubes

Couplers

Great, Swell, Choir, Solo to Pedal 8’, 4’
Swell, Choir, Solo to Great 16’, 8’, 4’
Great, Swell, Choir, Solo 16’, 4’, Unison Release
Solo to Swell, Choir 16’, 8’, 4’
Swell to Choir 16’, 8’, 4’
Pedal to Pedal 8’
General Cancel, including Crescendo and Sforzando

Pedal Movements

Expression: Swell, Choir, Solo, Echo/Antiphonal (with adjustable connections)
Crescendo Pedal
Reversibles by foot plungers and hand pistons:
16’ Manual stops Off
32’ Stops Off
Sforzando
Sforzando MF
Reversibles for all 32’ stops
Pistons for control of Echo/Antiphonal and Main Organ

Combination Pistons

Swell: 1, 2, 3, 4, 5, 6, 7, 8, 0
Great: 1, 2, 3, 4, 5, 6, 7, 0
Choir: 1, 2, 3, 4, 5, 6, 0
Solo: 1, 2, 3, 4, 5, 6, 0
Echo: 1, 2, 3, 0
Pedal: 1, 2, 3, 4, 5, 6, 7, 8, 0 (Pedal pistons and plungers)
Gen.: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 0

GENERAL DETAILS OF CONSTRUCTION

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| a. <u>LOCATION:</u> | Main Organ to be located in chambers on either side of the chancel. Echo-Antiphonal Organ to be located at rear of gallery |
| b. <u>CONSOLE:</u> | Console containing four Manuals and Pedal Claviers built to Aeolian Standard design. |
| c. <u>CASEWORK:</u> | Console case and organist's seat, both of Aeolian Standard design constructed of native hardwood are included in this contract, but no Organ case work, screens, grilles, or display pipes are so included |
| d. <u>BLOWER:</u> | Blowing apparatus including a blower with motor wound to suit local electric conditions, and a generator to furnish low voltage current for the Organ and Console mechanism to be furnished by Organ builders. |
| e. <u>WIND PIPES:</u> | Wind pipes for Organ and Console to be furnished by Organ builders. |
| f. <u>PURCHASER AGREES:</u> | To furnish drawings and all essential information required by Organ builder for the proper planning and construction of the Organ and to make necessary preparations for the Organ at his own expense in accordance with directions and information supplied by the Organ builder, such to include: provision of sound proof chamber or chambers with suitable tone openings, clean and thoroughly dried out before the Organ parts are delivered; suitable room for motor and blower and all wiring, conduit, switches for cables and mains; electric lights in Organ chambers, Console and blower room; and adequate ventilation and means of keeping the atmosphere in all parts of the Organ and blower room at a proper temperature and free from dampness, dust, or other detrimental conditions. Also to allow such access to and use of the premises as may be necessary and convenient for the proper installation, regulation and tuning of the Organ and to provide necessary light, heat and power therefor. |

Blower: 30 Horsepower Orgoblo; 3 Phase, 60 Cycles, 220 Volts- 900 RPM

Blower: 1/2 Horsepower Orgoblo for 25" Pressure (Booster)

Suction Turbo: 3/4 Horsepower

Generator: 100 Amp R&M driven by two V belts

Starters: Allen-Bradley: 30 Horsepower- Bul. 740

3/4 Horsepower- Bul. 709

1/2 Horsepiwer- Bul, 709