

Contents

FOREWORD by Sir Adrian Boult	page 7
PREFACE by the Author	19
PART ONE—THE WOODWIND TODAY	
<i>Chapter</i>	
I. GENERAL INTRODUCTION	25
The Woodwind Section	25
Fingering charts and diagrams	27
Basic woodwind acoustics	29
Generation of the sound	31
Harmonics	32
Stopped pipes and the clarinet	34
Reed instruments with conical bore	36
Overblowing	37
Tonguing and Breathing	39
General rules	39
Double-tonguing	41
Flutter-tonguing	42
Antiquarian double-tonguing	42
Vibrato	44
Woodwind transposition	45
Pitch	48
Flat Pitch	48
Sharp Pitch	50
'Old Pitch'	51
II. THE FLUTE	
Introduction	52
General construction	52
Wood <i>versus</i> metal	54

CONTENTS

<i>Chapter</i>	<i>page</i>
II. Piccolo	56
(cont.) Bass flutes	57
Flute bands and band flutes	59
Flute mechanisms	62
Boehm flute	62
Other cylindrical systems	67
Conical flutes	69
Recorders	71
 III. REEDS AND REED-MAKING	
Reed cane	76
Double reeds	77
Oboe reed from gouged cane	79
Cor anglais reed, etc.	83
Bassoon reed from gouged cane	83
Single reeds	86
Clarinet reed	86
Single reeds for oboe and bassoon	87
Plastic reeds	88
Bagpipe reeds	88
 IV. THE OBOE	
Introduction	91
Oboe designs and styles	92
Deep oboes	96
Cor anglais	96
Oboe d'amore	97
Bass oboe and heckelphones	98
Oboe mechanisms	100
Simple-system oboe	100
Thumb-plate system	101
Conservatoire system	106
Other oboe systems	111
The Shawm today	113
Musette	115
 V. THE CLARINET	
Introduction	117
B \flat , A and C clarinets	118

CONTENTS

<i>Chapter</i>	<i>page</i>
V. Mouthpiece, bore and tone	120
(cont.) High and deep clarinets	123
The small clarinets	123
Basset horn	125
Bass clarinet	127
Alto clarinet	129
Contrabass clarinet	130
Clarinet mechanisms	131
Boehm systems	131
'Non-Boehm' systems	136
Saxophones	142
Saxophone mechanism	146
Tarogato	147
 VI. THE BASSOON	
Introduction	149
Assembling and sounding the bassoon	150
The Buffet and the Heckel	152
Bassoon mechanisms	158
French bassoon	158
German bassoon	159
Contrabassoon	163
Sarrusophones, etc.	166
PART TWO—HISTORY	
 VII. THE PRIMITIVE FLUTE WORLD	
Introduction	171
Flute typology shown in whistles	172
Flute music without finger-holes	174
'The Man' and 'The Woman'	174
Flute bands and panpipes	176
The harmonic flute as a solo instrument	179
Finger-holes	181
Some special exotic forms	184
Nose flutes	184
Central-embouchure flutes	185
Ringed flageolets, etc.	187

CONTENTS

<i>Chapter</i>		<i>page</i>
VIII.	EARLY REED INSTRUMENTS AND DOUBLE-PIPING	
	Introduction	189
	Reeds, single and double	190
	Double pipes	194
	Parallel pipes	196
	Divergent pipes	198
	Unequal pipes	203
	Double flageolet	208
IX.	MEDIEVAL WIND MUSIC	
	Introduction	209
	Short encyclopedia of medieval wind instruments	212
	Loud and soft instruments (1300 onwards)	230
	Loud music: Oriental; in Europe	231
	Soft music: ditto	233
X.	THE SIXTEENTH CENTURY AND THE CONSORTS	
	Introduction	237
	The Instruments in general	241
	Consort sizes	242
	Technique and divisions	243
	Recorders	246
	Flutes	248
	Crumhorns and other capped reed instruments	252
	Cornetts	259
	Mute cornett	261
	Revival of the cornett	262
	Curtals	263
	Reed instruments with doubled-back cylindrical bores	265
	The Shawm band	268
XI.	THE EIGHTEENTH CENTURY AND THE CLASSICAL WOODWIND	
	Introduction	273
	Jean Hotteterre	275

CONTENTS

<i>Chapter</i>	<i>page</i>
XI. The Oboe	277
(<i>cont.</i>) Tenor oboe	283
Deutsche Schalmey	285
The Bassoon	286
Small and large bassoons	289
The Flute	290
Six-keyed flute	292
Small flutes and fifes	294
Chalumeau and clarinet	295
Two-keyed clarinets	297
The classical clarinet	299
The d'amore instruments	302
The woodwind 'horns'	304
The Serpent	307
Performance	309
XII. MECHANIZATION	
Introduction	312
Flute systems	316
The eight-keyed flute	316
Boehm	320
Oboe systems	325
The Triébert oboe	325
Clarinet systems	330
Bassoon systems	334
The Heckel	338
Appendix 1. ALPHABETICAL LIST OF OLD LONDON MAKERS AND SUPPLIERS	343
Appendix 2. PARLOUR PIPES	348
Appendix 3. NOTES ON MAINTENANCE	354
BIBLIOGRAPHY	357
GLOSSARY OF TERMS	368
INDEX	373