

TABLE OF CONTENTS

FOREWORD	iii
DUCT DESIGN COMMITTEE	iv
NOTICE TO USERS	v
TABLE OF CONTENTS	vii
CHAPTER 1 DESCRIPTION OF HEATERS	1.1
1.1 INTRODUCTION	1.1
1.2 CONSTRUCTION	1.1
1.3 TYPES	1.1
1.4 SUMMARY	1.1
CHAPTER 2 APPLICATIONS	2.1
2.1 INTRODUCTION	2.1
2.2 PRIMARY HEAT	2.1
2.3 PREHEAT	2.1
2.4 REHEAT	2.1
2.5 SUPPLEMENTAL OR AUXILIARY HEAT	2.1
CHAPTER 3 SELECTION	3.1
3.1 INTRODUCTION	3.1
3.2 VELOCITY	3.1
3.3 AIR TEMPERATURES	3.1
3.4 BTU CAPACITY	3.1
3.5 ELECTRIC CHARACTERISTICS	3.1
3.6 HEATER TYPE	3.2
3.7 HEATER POSITION	3.2
3.8 CLEARANCE	3.2
3.9 AIR FLOW DIRECTION	3.2
3.10 AIR FRICTION	3.2
3.11 DERATED COILS	3.2
3.12 OPTIONAL FEATURES	3.2
CHAPTER 4 LOCATION	4.1
4.1 INTRODUCTION	4.1
4.2 ELBOWS	4.1
4.3 EQUIPMENT	4.1
4.4 BRANCH DUCTS	4.1
4.5 GRILLES	4.1
4.6 FIBROUS GLASS DUCTS	4.1
4.7 SPECIAL LOCATIONS	4.1
4.8 OTHER FACTORS	4.1
CHAPTER 5 INSTALLATION	5.1
5.1 INTRODUCTION	5.1
5.2 SLIP-IN HEATERS	5.1
5.3 FLANGED HEATERS	5.1
5.4 GENERAL REQUIREMENTS	5.1



CHAPTER 6	CONTROLS	6.1
6.1	INTRODUCTION	6.1
6.2	ELECTRICAL CONTROLS	6.1
6.3	TEMPERATURE CONTROLS	6.1
CHAPTER 7	ILLUSTRATIONS	7.1
CHAPTER 8	REFERENCES	8.1
CHAPTER 9	INDEX	9.1



FIGURES

Figure 7-1 Flanged Duct Heater 7.1

Figure 7-2 Slip-in Duct Heater 7.2

Figure 7-3 Equalizing Grid 7.3

Figure 7-4 Flanged Heater in Fibrous Glass Duct 7.4

Figure 7-5 Slip-in Heater in Fibrous Glass Duct 7.5

Figure 7-6 Duct Transitions - Plan View 7.6

Figure 7-7 Heater Upstream Elbow 7.7

Figure 7-8 Heater Downstream From Elbow 7.8

Figure 7-9 Heater Upstream From Outlet Connection 7.9

Figure 7-10 Heater in Branch Duct 7.10

Figure 7-11 Heater in Branch Duct 7.11

Figure 7-12 Heater in Branch Duct 7.12

Figure 7-13 Heater in Divided Duct 7.13

Figure 7-14 Heater in Divided Duct 7.14

Figure 7-15 Heater Downstream From Air Handler 7.15

Figure 7-16 Heater Downstream From Air Handler 7.16

