



No. 20



45° Angle



No. 28R



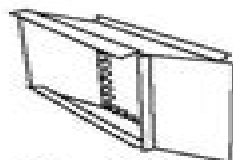
No. 63A



No. 14



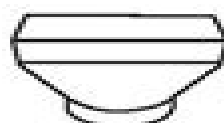
No. 16



No. 23



90° Elbow



No. 27R



No. 55



No. 62



No. 120SC



No. 24R



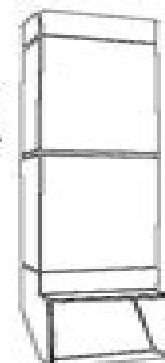
No. 97



No. 65



No. 63



No. 810

### EQUIVALENT LENGTHS

#### PLENUM/DUCT FITTINGS

No. 23	Offset starting collar	10' EL
No. 20	Straight starting collar	35' EL
No. 120SC	Snap collar, round	35' EL

#### ROUND ELBOWS & ANGLES

	90° elbows	30' EL
	45° angles	10 - 20' EL

#### REGISTER BOOTS

No. 24R	90° register boot	30' EL
No. 27R	Straight register boot	5' EL
No. 28R	End register boot	50' EL

#### ROUND FITTINGS (TAKEOFFS)

No. 97	Round starting collar	35' EL
No. 63	Square to round straight	15' EL
No. 63A	Square to round elbow	40 - 45' EL
No. 62	Square to round elbow	40' EL
No. 55	Round to round (adjustable)	20 - 25' EL
No. 65	Round to round	20 - 25' EL

### EQUIVALENT LENGTHS

#### DUCT ELBOWS, RADIUS THROAT

No. 14	Up to 11"	10' EL
	12" to 21"	15' EL
	22" to 27"	20' EL
	28" to 33"	25' EL

#### DUCT ELBOWS, SQUARE THROAT

No. 16	Up to 11"	40' EL
	12" to 15"	55' EL
	16" to 21"	75' EL
	22" to 27"	100' EL
	28" to 33"	125' EL

#### RETURN AIR SYSTEM

No. 810	Cold air boot, collar, duct	45- 65' EL
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# Duct Sizing Manual Formula Methods

**Carrier Corporation. Carrier Air  
Conditioning Company**



## Duct Sizing Manual Formula Methods:

*Mastering Duct Design for HVAC Systems* Charles Nehme, Welcome to the world of duct design Whether you re an engineer embarking on your career in HVAC systems a contractor seeking to refine your craft or an architect aiming for a deeper understanding of building systems this book is your guide to mastering the art and science of ductwork Efficient and effective duct design is the invisible backbone of a comfortable and healthy indoor environment It ensures the conditioned air warm or cool reaches the right spaces in the right quantities Yet duct design can often be an under appreciated aspect of HVAC systems Poorly designed ducts can lead to a cascade of problems from wasted energy and discomfort to noise complaints and even code violations This book aims to bridge that gap We ll delve into the fundamentals of airflow duct materials and pressure drop calculations equipping you with the core knowledge for effective design But knowledge alone isn t enough We ll explore practical applications guiding you through the specific considerations for residential commercial and industrial buildings You ll learn how to optimize airflow minimize noise and prioritize energy efficiency in your designs This book is not just about the mechanics it s about the bigger picture We ll discuss the latest trends and technologies shaping the future of duct design from sustainable materials to powerful design software We ll also explore the critical role of codes and standards in ensuring safe and efficient systems By the end of this journey you ll be equipped to design ductwork that not only meets technical requirements but also delivers optimal comfort minimizes environmental impact and aligns with best practices So grab your pencil or fire up your design software and let s embark on this exploration of the fascinating world of duct design

**Building Services Engineering Spreadsheets** David V. Chadderton,1997 This text is a versatile user friendly tool for design calculations It aims to fill the gap between manual calculation methods using a calculator and dedicated software costing thousands of pounds *ASHRAE Journal* ,1988

**Heating, Ventilating, Air Conditioning Guide** ,1925 **American Society of Heating and Ventilating Engineers Guide** ,1924 **Industrial Hygiene Control of Airborne Chemical Hazards** William Popendorf,2006-05-15 Do you need guidelines for choosing a substitute organic solvent that is safer to use Do you need an effective cheap but perhaps temporary way to reduce exposures before you can convince your employer to spend money on a long term or more reliable solution Do you need information about local exhaust ventilation or personal protective equipment like respirators and gloves *Industrial Hygiene Control of Airborne Chemical Hazards* provides the answers to these questions and more Science based and quantitative the book introduces methods for controlling exposures in diverse settings focusing squarely on airborne chemical hazards It bridges the gap between existing knowledge of physical principles and their modern application with a wealth of recommendations techniques and tools accumulated by generations of IH practitioners to control chemical hazards Provides a unique comprehensive tool for facing the challenges of controlling chemical hazards in the workplace Although William Popendorf has written the book at a fundamental level he assumes the reader has some experience in science and math as well as in

manufacturing or other work settings with chemical hazards but is inexperienced in the selection design implementation or management of chemical exposure control systems Where the book is quantitative of course there are lots of formulae but in general the author avoids vague notation and long derivations     *Heating, Ventilating, Air-conditioning Guide* ,1950

Nuclear Science Abstracts ,1969     **American Society of Heating and Ventilating Engineers Guide** American Society of Heating and Air-Conditioning Engineers,1925     Steam Heating Warren & co. Webster (Camden, N. J.),1922  
    *Sheet Metal Worker* ,1920     **Steam Heating** Webster, Warren & company, Camden, N.J.,1924     **Air Duct Guide** Reynolds Metals Company,1956     *The Software Encyclopedia 2001* ,2001     **Heating, Piping, and Air Conditioning** ,1954 Vols for May 1929 Dec 1958 include the Journal of the American Society of Heating and Air Conditioning Engineers called in 1929 54 American Society of Heating and Ventilating Engineers in Journal Section     **Handbook of Air Conditioning System Design** Carrier Corporation. Carrier Air Conditioning Company,1965     **Industrial Heating Engineer** ,1951     Coal-heat ,1954     *Coal-heat and Building Materials* ,1954     **Sheet Metal Worker** ,1953

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