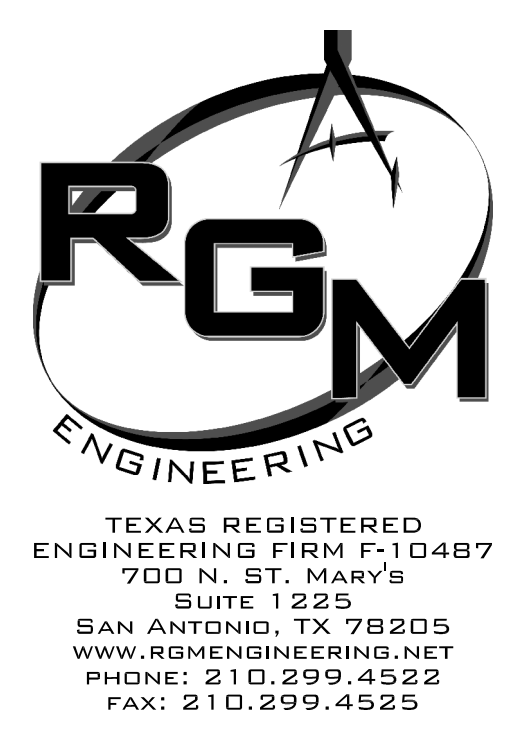


MECHANICAL ABBREVIATIONS



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MECHANICAL SYMBOLS AND ABBREVIATIONS

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M100

A

ABV	ABOVE
A/C	AIR CONDITIONING
ACCH	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR, AREA DRAIN
ADJ	ADJUSTABLE
AF	AIR FILTER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AMB	AMBIENT
APD	AIR PRESSURE DROP
ARI	AMERICAN REFRIGERANT INSTITUTE
ARCH	ARCHITECT, ARCHITECTURAL
ASHRAE	AMERICAN SOCIETY OF HEATING AND REFRIGERATION ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AVG	AVERAGE
AWS	AMERICAN WELDING SOCIETY
AUX	AUXILIARY

B

B/C	BACK OF CURB
BF	BELOW FLOOR
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STRUCTURE
BTU	BRITISH THERMAL UNIT

C

C	CELSIUS
CAB	CABINET
CD	CONDENSATE DRAIN LINE
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CH	CHILLER
CHP	CHILLED WATER PUMP
CHR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CI	CAST IRON
CL	CENTERLINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPRESSOR
COND	CONDENSER
CONTR	CONTROLLER
CRAC	COMPUTER ROOM A/C UNIT
CT	COOLING TOWER
CW	COLD WATER
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY

D

DB	DRY BULB
DOC	DIRECT DIGITAL CONTROL
DTL	DETAIL
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DN	DOWN
DPR	DAMPER
DS	DOWNSPOUT, DUCTLESS SPLIT
DSCU	DUCTLESS SPLIT CONDENSING UNIT
DWH	DOMESTIC WATER HEATER
DWP	DOMESTIC WATER PUMP

E

EA	EACH
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EFF	EFFICIENCY
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EVAP	EVAPORATOR
EWB	ENTERING WET BULB
EXT	EXTERNAL
EXTG	EXISTING

F

F	FAHRENHEIT
FBO	FURNISHED BY OTHERS
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FLEX	FLEXIBLE
FLR	FLOOR
FP	FAN POWERED MIXING BOX
FRZR	FREEZER
FT	FOOT, FEET
FUT	FUTURE

G

GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR, GRADE CLEANOUT
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GSH	GRAND SENSIBLE HEAT
GTH	GRAND TOTAL HEAT

H

HE	HEAT EXCHANGER
HP	HORSEPOWER, HALON PANEL
HPU	HEAT PUMP UNIT
HKP	HOUSEKEEPING PAD
HSC	HORIZONTAL SPLIT CASE
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HZ	HERTZ

I

ID	INSIDE DIAMETER
IN	INCH
INSUL	INSULATION
INT	INTERNAL, INTERIOR

J

K

L

LAT	LEAVING AIR TEMPERATURE
LF	LINEAR FEET
LP	LOW PRESSURE
LVL	LEVEL
LWB	LEAVING WET BULB

M

MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND OF BTU'S
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MP	MEDIUM PRESSURE
MTD	MOUNTED
MUA	MAKE-UP AIR
MVD	MANUAL VOLUME DAMPER

N

N.C.	NOISE CRITERIA
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE

O

OA	OUTSIDE AIR
OAHU	OUTSIDE AIR HANDLING UNIT
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OFUC	OUTSIDE AIR FAN COIL UNIT

P

PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP, PLANTER DRAIN
PNTH	PENTHOUSE
PPM	PART PER MILLION
PRI	PRIMARY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE

Q

QTY	QUANTITY
-----	----------

R

RA	RETURN AIR
RAD	REFRIGERATED AIR DRYER
RF	RETURN AIR FAN
RAG	RETURN AIR GRILL
RAT	RETURN AIR TEMPERATURE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE	REFERENCE, REFER
RECIRC	RECIRCULATE
REFR	REFRIGERATOR
REV	REVISION, REVISE
RH	RELATIVE HUMIDITY
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RM	ROOM, REFRIGERATION MACHINE
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT

S

S	STEAM
SA	SUPPLY AIR
SF	SUPPLY AIR FAN
SAG	SUPPLY AIR GRILLE
SAR	SUPPLY AIR REGISTER
SEC	SECONDARY
SECT	SECTION
SENS	SENSIBLE
SF	SQUARE FEET
SM	SHEETMETAL
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STEAM SUPPLY
SR	STEAM RETURN
STD	STANDARD
SURF	SURFACE
SUSP	SUSPEND

T

TC	TEMPERATURE CONTROL
TCC	TEMPERATURE CONTROL COMPRESSOR
TF	TRANSFER FAN
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TYP	TYPICAL

U

UC	UNDER CUT DOOR
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
U/F	UNDERFLOOR

V

VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VEL	VELOCITY
VERT	VERTICAL

W

W	WASTE, WIDTH
W/	WITH
W/O	WITHOUT
WB	WET BULB

Y

Z

Z	ZONE
---	------

HVAC SYMBOLS

	RETURN GRILLE WITH SQUARE DUCT NECK CONNECTION
	RETURN AIR DIFFUSER
	4-WAY SUPPLY DIFFUSER UNLESS OTHERWISE NOTED ON PLANS
	EXHAUST AIR DIFFUSER
	EXHAUST DUCT UP
	EXHAUST DUCT DOWN
	RETURN DUCT UP
	RETURN DUCT DOWN
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	EQUIPMENT TAG
	DIFFUSER KEY: TYPE / NECK CFM
	THERMOSTAT / TEMPERATURE SENSOR (MOUNT 48" A.F.F.)
	HUMIDISTAT (MOUNT 48" A.F.F.)
	TEMPERATURE SENSOR (MOUNT 48" A.F.F.)
	PRESSURIZATION SENSOR
	POINT OF CONNECTION, NEW AND EXISTING
	EXISTING DUCTWORK TO REMAIN
	EXISTING DUCTWORK TO BE REMOVED
	NEW DUCTWORK, WIDTH / HEIGHT
	ELBOW WITH TURNING VANES
	DUCT TRANSITION, SINGLE AND DOUBLE LINE
	FLEXIBLE CONNECTION
	FLEXIBLE DUCT CONNECTION TO AIR DIFFUSER
	FLEXIBLE DUCT
	SQUARE TO ROUND DUCT TRANSITION
	RECTANGULAR DUCT WITH EXTERNAL INSULATION
	ROUND DUCT WITH EXTERNAL INSULATION
	BALANCING DAMPER
	BRANCH TAP WITH DAMPER
	ROUND DUCT DOWN
	ROUND DUCT UP
	DUCT MOUNTED SMOKE DETECTOR
	FIRE DAMPER
	OPPOSED BLADE VOLUME DAMPER
	FIRE/SMOKE DAMPER
	MOTORIZED DAMPER
	VARIABLE FREQUENCY DRIVE
	ACCESS DOOR
	UNDER CUT DOOR
	LOUVERED DOOR
	SPLITTER DAMPER

MECHANICAL SYMBOLS

	EXISTING CONDENSATE DRAIN PIPING TO REMAIN.
	DEMO CONDENSATE DRAIN PIPING TO BE REMOVED
	NEW CONDENSATE DRAIN PIPING
	EXISTING REFRIGERANT PIPING TO REMAIN.
	DEMO REFRIGERANT PIPING TO BE REMOVED.
	NEW REFRIGERANT PIPING.
	EXISTING DUCTWORK TO REMAIN.
	EXISTING DUCTWORK TO BE REMOVED.
	NEW DUCTWORK.
	CHILLED WATER SUPPLY PIPE TO REMAIN.
	EXISTING CHILLED WATER SUPPLY PIPE TO BE REMOVED.
	NEW CHILLED WATER SUPPLY PIPE.
	CHILLED WATER RETURN PIPE TO REMAIN.
	EXISTING CHILLED WATER RETURN PIPE TO BE REMOVED.
	NEW CHILLED WATER RETURN PIPE.
	STEAM SUPPLY TO REMAIN
	EXISTING STEAM SUPPLY PIPE TO BE REMOVED.
	NEW STEAM SUPPLY PIPE.
	STEAM RETURN TO REMAIN
	EXISTING STEAM RETURN PIPE TO BE REMOVED.
	NEW STEAM RETURN PIPE.
	EXISTING AIR DEVICE TO REMAIN.
	EXISTING AIR DEVICE TO BE REMOVED.
	NEW AIR DEVICE.

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CAD
JH/FRM/HG
P
HN
MG
TP
M
PM
RCM