

AIR DISTRIBUTION SYMBOLS

	RECTANGULAR DUCT. (FIRST NUMBER IS SIDE SHOWN) DIMENSIONS IN INCHES
	12 INCH ROUND DUCT
	MOTORIZED DAMPER
	FLEXIBLE DUCT
	DUCT FLEXIBLE CONNECTOR (FC)
	DUCT DROPS AND RISES IN DIRECTION OF AIR FLOW
	RETURN DUCT TURNED UP OR DOWN (DASHED)
	SUPPLY DUCT TURNED UP OR DOWN (DASHED)
	EXHAUST DUCT TURNED UP OR DOWN (DASHED)
	ACOUSTICAL LINING (DUCT DIM. FOR NET FREE AREA)
	ROUND DUCT ELBOW DOWN
	ROUND DUCT ELBOW UP
	SQUARE TO ROUND TRANSITION
	CAP (DUCT AND/OR PIPE)
	INDICATES DUCT, PIPING, EQUIPMENT TO BE REMOVED.
	EXHAUST AIR
	RETURN AIR
	SUPPLY AIR
	VOLUME DAMPER
	FIRE DAMPER
	SMOKE DAMPER TAG NO.
	COMBINATION SMOKE/FIRE DAMPER TAG NO.
	RECTANGULAR ELBOW W/TURNING VANES
	DIRECTION OF AIR FLOW (IN) DIRECTION OF AIR FLOW (OUT)
	HUMIDISTAT OR HUMIDITY SENSOR
	THERMOSTAT (T'STAT) OR TEMP. SENSOR
	CARBON DIOXIDE SENSOR
	SMOKE DETECTOR

PIPING SYMBOLS

	UNION
	FLANGE
	PIPE ANCHOR
	PIPE GUIDE OR SLEEVES
	PIPE ELBOW TURNED DOWN
	PIPE ELBOW TURNED UP
	PIPING TEE-DOWN
	PIPING TEE-UP
	PIPE RISER
	FLOOR CLEAN OUT
	CLEAN OUT
	DANDY CLEAN OUT
	WALL CLEAN OUT
	PIPE PITCHES DOWN
	GENERIC VALVE, SEE SPECIFICATIONS FOR TYPE
	GATE VALVE
	BALL VALVE
	BUTTERFLY VALVE (MANUAL)
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	BALANCING VALVE (CIRCUIT SETTER)
	CHECK VALVE
	PLUG VALVE
	GLOBE VALVE
	NEEDLE VALVE
	BACK FLOW PREVENTER
	SOLENOID VALVE
	PRESSURE REDUCING OR REGULATING VALVE
	PRESSURE RELIEF VALVE
	STRAINER
	STRAINER W/BLOWDOWN
	MANUAL AIR VENT
	AUTOMATIC AIR VENT

ABBREVIATIONS

AAV	AUTOMATIC AIR VENT	DC	DOUBLE CONTAINED	PEA	ALKALI EXHAUST
ACC	AIR COOLED CONDENSER	DCO	DANDY CLEANOUT	PEH	HEAT EXHAUST
ACU	AIR CONDITIONING UNIT	DDC	DIRECT DIGITAL CONTROL	OA	OUTSIDE AIR
ACV	AREA CONTROL VALVE	DIA	DIAMETER	OBD	OPPOSED BLADE DAMPER
AD	ACCESS DOOR	DIC	DOWN IN CHASE	OED	OPEN ENDED DUCT
AE	ACID EXHAUST	DIW	DOWN IN WALL	P-#	PLUMBING FIXTURE TAG
AFF	ABOVE FINISHED FLOOR	DN	DOWN	PAE	PROCESS ACID EXHAUST
AFMS	AIR FLOW MEASURING STATION	DS	DOWNSPOUT	PHE	PROCESS HEAT EXHAUST
AHU	AIR HANDLING UNIT	DT	DROP & TRANSITION	PSE	PROCESS SOLVENT EXHAUST
AP	ACCESS PANEL	DWG	DRAWING	PP	POLY-PROPYLENE
ATC	AUTOMATIC TEMPERATURE CONTROL	EA	EXHAUST AIR	PPE	PRE PURCHASED EQUIPMENT
AV	AIR VENT	EF	EXHAUST FAN	PRS	PRESSURE REDUCING STATION
BA	BREATHING COMPRESSED AIR	ENC	ENCLOSURE	PRV	PRESSURE REDUCING VALVE
BB	BASEBOARD	ER	EXHAUST REGISTER	PVD	PNEUMATIC VOLUME DAMPER
BDD	BACKDRAFT DAMPER	(E)	EXISTING	(R)	REMOVE
BG	BLAST GATE	EXIST.	EXISTING	RA	RETURN AIR
BFP	BACKFLOW PREVENTER	FBO	FURNISHED BY OWNER	RD	ROOF DRAIN
BLDG	BUILDING	FBP	FACE & BYPASS	(REL.)	RELOCATED
BMS	BUILDING MANAGEMENT SYSTEM	FC	FLEXIBLE CONNECTION	RF	RETURN FAN
BOD	BOTTOM OF DUCT	FCO	FLOOR CLEANOUT	RFM	RADIANT FLOOR MANIFOLD
BOP	BOTTOM OF PIPE	FD-#	FLOOR DRAIN TAG	RG	RETURN GRILLE
BTU	BRITISH THERMAL UNIT	FD	FIRE DAMPER	RC	REHEAT COIL
CBD	COUNTER BALANCED DAMPER	FG	FIBERGLASS	RM	ROOM
CD	CEILING DIFFUSER	FLA	FULL LOAD AMPS	RPZ	REDUCED PRESSURE ZONE BFP
CFF	CAPPED FOR FUTURE	F & T	FLOAT & THERMOSTATIC	RR	RETURN REGISTER
CFM	CUBIC FEET PER MINUTE	FO	FLAT OVAL	RV	RELIEF VALVE
CLG	CEILING	FRHB	FREEZE RESISTANT HOSE BIBB	SA	SUPPLY AIR
CO	CLEANOUT	FTR	FINNED TUBE RADIATION	SCV	SELF CONTAINED VALVE
CONT	CONTINUATION	FS	FAN STATUS	SD	SMOKE DETECTOR
COORD	COORDINATE	FSW	FLOW SWITCH	SF	SUPPLY FAN
CP	CONDENSATE PUMP & RECEIVER	GC	GENERAL CONTRACTOR	SG	SUPPLY GRILLE
CT	COOLING TOWER	GPM	GALLONS PER MINUTE	SGR	SOIL GAS REMEDIATION
CTE	CONNECT TO EXISTING	H	HUMIDIFIER	SMM	SNOW MELT MANIFOLD
CU	COPPER	HB	HOSE BIB	SR	SUPPLY REGISTER
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT	SS	STAINLESS STEEL
CV	CONTROL VALVE	HTR	DOMESTIC WATER HEATER	TE	TEMPERATURIZED ELEMENT (SENSOR)
CW	COLD WATER	H & V	HEATING & VENTILATION	TG	TRANSFER GRILLE
CW-P	CITY WATER - PROCESS	HVAC	HEATING, VENTILATING & AIR CONDITIONING	TOD	TOP OF DUCT
		HW	HOT WATER	TOP	TOP OF PIPE
		HX	HEAT EXCHANGER	TTS	TIGHT TO STEEL
		IN WG	INCHES WATER GAUGE	TV	TURNING VANE(S)
		LD	LINED DUCT	TW	TEMPERED WATER
		LPC	LIMIT OF PLUMBING CONTRACT	TYP	TYPICAL
		MAU	MAKE UP AIR UNIT	UH	UNIT HEATER
		MAX	MAXIMUM	UIC	UP IN CHASE
		MBH	1000 BTU/HR.	UIW	UP IN WALL
		ME	MECHANICAL ENGINEER	UV	UNIT VENTILATOR
		MFR	MANUFACTURER	VAV	VARIABLE AIR VOLUME BOX
		MIN	MINIMUM	VB	VACUUM BREAKER
		MD	MOTOR OPERATED DAMPER	VTR	VENT THRU ROOF
		MPV	MULTI-PURPOSE VALVE	VD	MANUAL VOLUME DAMPER
		MTD	MOUNTED	VCCF	VALVED & CAPPED FOR FUTURE
		MUA	MAKE UP AIR	VOC	VOLATILE ORGANIC COMPOUNDS
		NPW	NON-POTABLE WATER	VFD	VARIABLE FREQUENCY DRIVE
		NTS	NOT TO SCALE	W/	WITH
		P-#	PLUMBING FIXTURE TAG	WCO	WALL CLEANOUT
				WH	WALL HYDRANT

10:1 HF	10:1 HF	H	HYDROGEN	N2	PROCESS NITROGEN	ZB	ZONE VALVE BOX
AV	ACID VENT	H2O2	HYDROGEN PEROXIDE	NG	NATURAL GAS	TEMP	DOMESTIC HOT WATER (TEMP °F)
AD	ACID DRAIN	HCR	HOT/ CHILLED WATER RETURN	HNG	HIGH PRESSURE NATURAL GAS	TEMP	RECIRC. DOMESTIC HOT WATER (TEMP °F)
AD	ACID DRAIN (BELOW SLAB)	HCS	HOT/ CHILLED WATER SUPPLY	NO2	NITROUS OXIDE		DOMESTIC COLD WATER
BA	BREATHING AIR	HCV	HOUSE CLEAN VACUUM	-NEG. SOLV.-	NEGATIVE SOLVENT DRAIN		DOMESTIC HOT WATER
CD	CONDENSATE DRAIN	HG	HOT GAS	NPW	NON POTABLE COLD WATER		RECIRCULATED DOMESTIC HOT WATER
CDA	COMPRESSED DRY AIR	HPS	HIGH PRESSURE STEAM	O2	OXYGEN	S, W or KW	S SANITARY, W WASTE & KW KITCHEN WASTE
CWS	CHILLED WATER SUPPLY	HPR	HIGH PRESSURE CONDENSATE RETURN	OFA	OIL FREE COMPRESSED AIR	S, W or KW	S SANITARY, W WASTE & KW KITCHEN WASTE (EXIST.)
CWR	CHILLED WATER RETURN	HWS	HOT WATER SUPPLY	PCWR	PROCESS COOLING WATER RETURN	S, W or KW	S SANITARY, W WASTE & KW KITCHEN WASTE (BELOW SLAB)
DB	DISTRIBUTION VALVE BOX	HWR	HOT WATER RETURN	PC	PUMPED STEAM CONDENSATE	S, W or KW	S SANITARY, W WASTE & KW KITCHEN WASTE (BELOW SLAB-EXIST.)
DIS	DEIONIZED WATER SUPPLY	IAD	ISOPROPYL ALCOHOL DRAIN	PD	PUMPED DISCHARGE	SD	SD STORM DRAIN
DIR	DEIONIZED WATER RETURN	LP	LIQUID PROPANE GAS	POS. SOLV.-	POSITIVE SOLVENT DRAIN	SD	SD STORM DRAIN (EXIST.)
EKCD	EKC DRAIN	HLP	HIGH PRESSURE LIQUID PROPANE GAS	PW	POTABLE WATER	SD	SD STORM DRAIN (BELOW SLAB)
ESEW	EYEWASH	LPS	LOW PRESSURE STEAM	R	RELIEF LINE	SD	SD STORM DRAIN (BELOW SLAB-EXIST.)
FCS	FREE COOLING SUPPLY	LPR	LOW PRESSURE RETURN	RL	REFRIGERANT LIQUID	V	SANITARY VENT
FOR	FREE COOLING RETURN	LTWR	LOW TEMPERATURE WATER RETURN	RS	REFRIGERANT SUCTION	V	SANITARY VENT (EXIST.)
FOS	FUEL OIL SUPPLY	LTWS	LOW TEMPERATURE WATER SUPPLY	SLD	MIXED SOLVENT DRAIN	V	SANITARY VENT (BELOW SLAB)
FOR	FUEL OIL RETURN	MA	MEDICAL AIR	SV	SOLVENT	V	SANITARY VENT (BELOW SLAB-EXIST.)
FOV	FUEL OIL VENT	MPS	MEDIUM PRESSURE STEAM	SP	SPRINKLER		
GCR	GRAVITY STEAM CONDENSATE RETURN	MPR	MEDIUM PRESSURE RETURN	TWS	TEMPERED CHILLED WATER SUPPLY		
GLY	GLYCOL	MV	MEDICAL VACUUM	TWR	TEMPERED CHILLED WATER RETURN		
GV	GAS VENT	N2NP	NON-PROCESS NITROGEN	VAC	PLANT VACUUM		

GENERAL NOTE

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