

### HVAC SYMBOLS LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AD	AUTOMATIC AIR DAMPER		CONNECTION - TOP		DOUBLE WALL LINED DUCT		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		ELECTRIC/PNEUMATIC SWITCH OR RELAY
ACC	AIR-COOLED CONDENSING UNIT		CONNECTION - BOTTOM		DUCT SECTION - SUPPLY		DUCT SECTION - RETURN/EXHAUST		PNEUMATIC/ELECTRIC SWITCH OR RELAY
AD	ACCESS DOOR		DIRECTION OF FLOW		DUCT SECTION - ROUND DUCT IN INCHES		SUPPLY AIR TAKEOFFS		CURRENT TRANSDUCER
AFF	ABOVE FINISHED FLOOR		REDUCER		DUCT SECTION - FLAT OVAL DUCT IN INCHES		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		OPEN/CLOSED
AHU	AIR HANDLING UNIT		CAP OR PLUG		ACOUSTIC THERMAL LINING		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		START/STOP
BBD	BOILER BLOW DOWN		ELBOW DOWN		FLEXIBLE DUCTWORK		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		ENABLE/DISABLE
BD	BACKDRAFT DAMPER		ELBOW UP		FLEXIBLE CONNECTION		SUPPLY / RETURN / EXHAUST AIR TAKEOFFS		TEMPERATURE SENSOR (DUCT OR PIPE MOUNTED)
CA	COMPRESSED AIR		TEE OUTLET - UP		FIRE DAMPER		SMOKE DAMPER		HUMIDITY SENSOR (DUCT MOUNTED)
CD	COOLING COIL CONDENSATE DRAIN		TEE OUTLET - DOWN		GATE VALVE		COMBINATION FIRE AND SMOKE DAMPER		FLOW TRANSMITTER
CFM	CUBIC FEET PER MINUTE		UNION		CHECK VALVE		VOLUME DAMPER		PRESSURE TRANSMITTER
CHWR	CHILLED WATER RETURN		BALL VALVE		TRIPLE DUTY VALVE		BACK DRAFT DAMPER		DIFFERENTIAL PRESSURE TRANSMITTER
CHWS	CHILLED WATER SUPPLY		BALANCING VALVE		GAS COCK, PLUG VALVE		BLAST GATE		ELECTRIC/PNEUMATIC TRANSDUCER
CR	CONDENSER WATER RETURN		STRAINER		LOUVERED DOOR W/ SQ. FT. OF FREE AREA		AIR VENT - MANUAL		ELECTRIC/ELECTRONIC TRANSDUCER
CS	CONDENSER WATER SUPPLY		STRAINER WITH BLOW-DOWN		AIR VENT - AUTOMATIC		AIR VENT - AUTOMATIC		DUCT SMOKE DETECTOR
CW	DOMESTIC COLD WATER		BUTTERFLY VALVE		FLANGE		AIR DUCT (FIRST FIGURE IS DUCT WIDTH/TOP, SECOND FIGURE IS DUCT DEPTH)		SPACE THERMOSTAT
D	DRAIN		BUTTERFLY CONTROL VALVE, PNEUMATIC 2-WAY		CONTROL VALVE, ELECTRIC 3-WAY		MULTI-BLADE AIR EXTRACTOR		SPACE TEMPERATURE SENSOR
(E)	EXISTING		BUTTERFLY CONTROL VALVE, ELECTRIC ACTUATOR		CONTROL VALVE, PNEUMATIC 2-WAY		TURNING VANES		SPACE CARBON DIOXIDE SENSOR
EA	EXHAUST AIR		GLOBE VALVE		CONTROL VALVE, PNEUMATIC 3-WAY		EXISTING WORK TO BE REMOVED (HATCHED)		SPACE NATURAL GAS SENSOR
EC	ELECTRICAL CONTRACTOR		CHECK VALVE		RELIEF / SAFETY VALVE		POINT OF CONNECTION		SPACE CARBON MONOXIDE SENSOR
EF	EXHAUST FAN		AUTOMATIC AIR DAMPER		PRESSURE REDUCING VALVE		POINT OF DISCONNECTION		SPACE SENSOR WITH GUARD
ERHC	ELECTRIC REHEAT COIL		BACK DRAFT DAMPER		VACUUM BREAKER		AIR FLOW SENSOR		SPACE HUMIDISTAT
ETR	EXISTING TO REMAIN		BLAST GATE		FLEXIBLE PIPE CONNECTOR		FILTER		WATER FLOW SENSOR
EUH	ELECTRIC UNIT HEATER		AIR DUCT		EXPANSION COMPENSATOR W/ GUIDES		TRANSITION SQUARE TO ROUND		PNEUMATIC ACTUATOR
F&T	FLOAT AND THERMOSTATIC TRAP		MULTI-BLADE AIR EXTRACTOR		PIPE ANCHOR		HUMIDIFIER DISPERSION TUBE		ELECTRIC ACTUATOR
FCU	FAN-COIL UNIT		TURNING VANES		PIPE GUIDE		LONG RADIUS 90° ELBOW R/W=1.5		VARIABLE SPEED / FREQUENCY DRIVE
PFM	FEET PER MINUTE		EXISTING WORK TO BE REMOVED (HATCHED)		RISE IN DUCT		LONG RADIUS 45° ELBOW R/W=1.5		COOLING COIL
FT	FIN-TUBE		POINT OF CONNECTION		DROP IN DUCT		90° ELBOW WITH TURNING VANES		HEATING COIL
GC	GENERAL CONTRACTOR		POINT OF DISCONNECTION		SQUARE CEILING DIFFUSER (4 WAY)		90° VERTICAL SPLIT OFF (PLAN VIEW)		GAS FURNACE
GR	GLYCOL RETURN		POINT OF DISCONNECTION		ROUND CEILING DIFFUSER		DUCT TURNING UP OR DOWN		HUMIDIFIER
GS	GLYCOL SUPPLY		AIR TERMINAL UNIT-DUCTWORK		SQUARE OR RECTANGULAR CEILING GRILLE		AIR TERMINAL UNIT-DUCTWORK		ALARM
HC	HVAC CONTRACTOR		SUPPLY DIFFUSER, 1-WAY, 2-WAY, 3-WAY		SUPPLY REGISTER, RETURN OR EXHAUST GRILLE		AIR TERMINAL UNIT-DUCTWORK		STATUS
HHWR	HEATING HOT WATER RETURN		CEILING DIFFUSER WITH NECK SIZE, TYPE, & CFM		FAN POWERED AIR TERMINAL UNIT		AIR TERMINAL UNIT-DUCTWORK		FLOW SWITCH
HHWS	HEATING HOT WATER SUPPLY		FAN POWERED AIR TERMINAL UNIT		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		DIFFERENTIAL STATIC PRESSURE SWITCH
HP	HEAT PUMP		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		RELAY
HPC	HIGH PRESSURE CONDENSATE		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		PRESSURE GAUGE
HPS	HIGH PRESSURE STEAM		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		FREEZE-STAT
LF	LINEAR FOOTAGE OF FIN-TUBE RADIATION		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		DIGITAL INPUT (TO BUILDING MANAGEMENT SYSTEM)
LPC	LOW PRESSURE CONDENSATE		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		DIGITAL OUTPUT (FROM BUILDING MANAGEMENT SYSTEM)
LPG	LIQUEFIED PROPANE GAS		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		ANALOG OUTPUT (FROM BUILDING MANAGEMENT SYSTEM)
LPS	LOW PRESSURE STEAM		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		ANALOG INPUT (TO BUILDING MANAGEMENT SYSTEM)
MBH	1,000 BTU/HR		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		ELECTRICAL INTERFACE
MC	MECHANICAL CONTRACTOR		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		SPEED FEED BACK
MPC	MEDIUM PRESSURE CONDENSATE		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		END SWITCH
MPS	MEDIUM PRESSURE STEAM		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		POSITION FEEDBACK
MRD	MONOFLO FITTING DOWN - HHWR		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		TRAVERSE AVERAGING SENSOR
MSD	MONOFLO FITTING DOWN - HHWS		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		PROBE SENSOR
MUW	MAKE-UP WATER		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		FREEZE STAT SENSOR
NC	NORMALLY CLOSED		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
NG	NATURAL GAS		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
NO	NORMALLY OPEN		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
NTS	NOT TO SCALE		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
OA	OUTSIDE AIR		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
PC	PLUMBING CONTRACTOR		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
PD	PUMP DISCHARGE		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
PHWR	PRIMARY HEATING HOT WATER RETURN		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
PHWS	PRIMARY HEATING HOT WATER SUPPLY		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
RA	RETURN AIR		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
RD	REFRIGERANT DISCHARGE		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
RHC	HOT WATER REHEAT COIL		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
RL	REFRIGERANT LIQUID PIPE		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
RSL	REFRIGERANT SUCTION PIPE		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
RTU	ROOFTOP UNIT		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
RV	ROOF VENT		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
SA	SUPPLY AIR		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
SHWR	SECONDARY HEATING HOT WATER RETURN		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
SHWS	SECONDARY HEATING HOT WATER SUPPLY		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
SSI	SPLIT SYSTEM INDOOR SECTION (EVAPORATOR SECTION)		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
SSO	SPLIT SYSTEM OUTDOOR SECTION (CONDENSING UNIT)		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
TC	TEMPERATURE CONTROLS CONTRACTOR		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
UH	UNIT HEATER		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
UV	UNIT VENTILATOR		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
V	VENT		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
WAHP	WATER-TO-AIR HEAT PUMP		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
WWHP	WATER-TO-WATER HEAT PUMP		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		AIR TERMINAL UNIT-DUCTWORK		
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