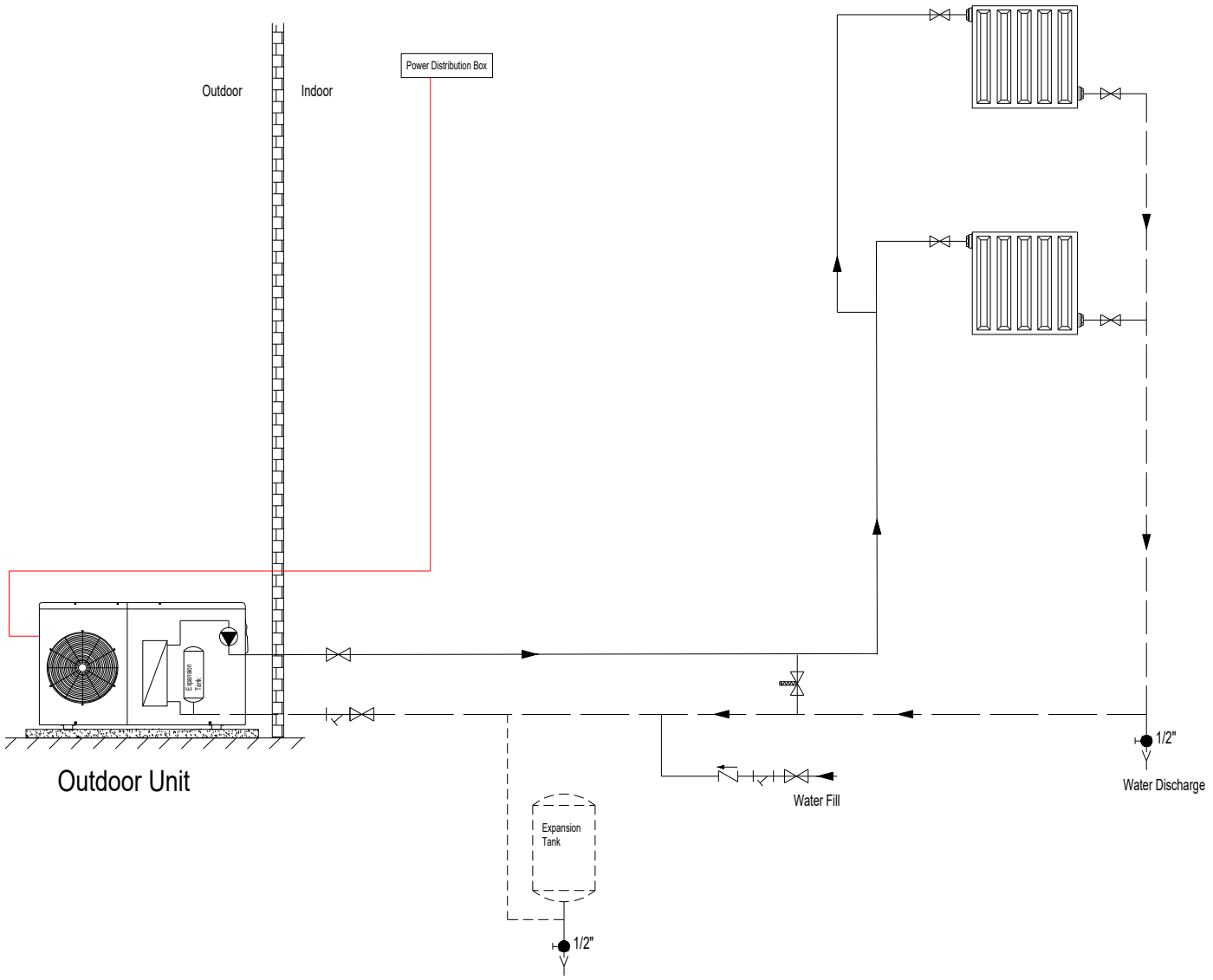
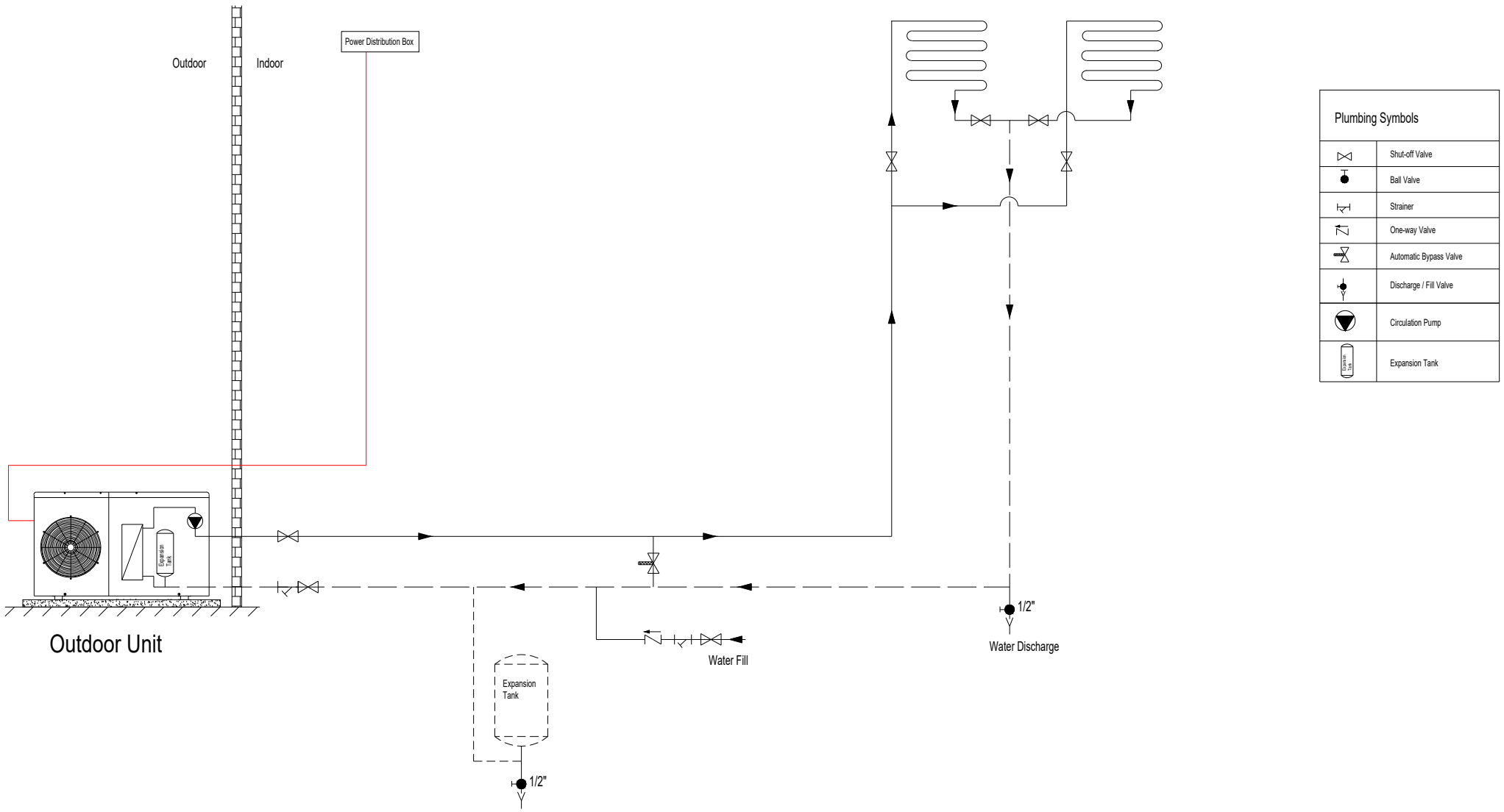


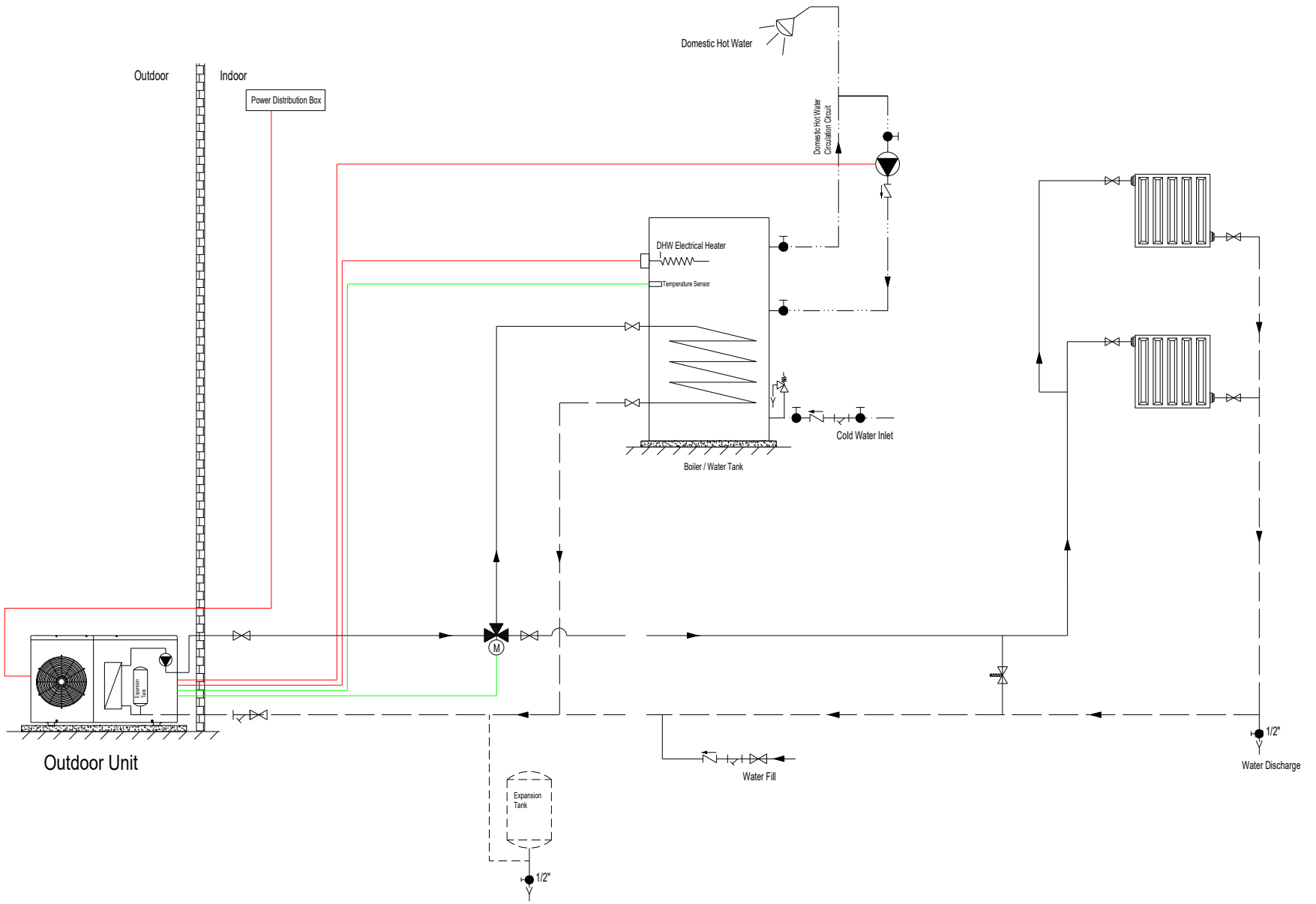
Plumbing Symbols	
	Shut-off Valve
	Ball Valve
	Strainer
	One-way Valve
	Automatic Bypass Valve
	Discharge / Fill Valve
	Circulation Pump
	Expansion Tank

VMTEC

MONOBLOC HEAT PUMP INSTALLATION SCHEME-1



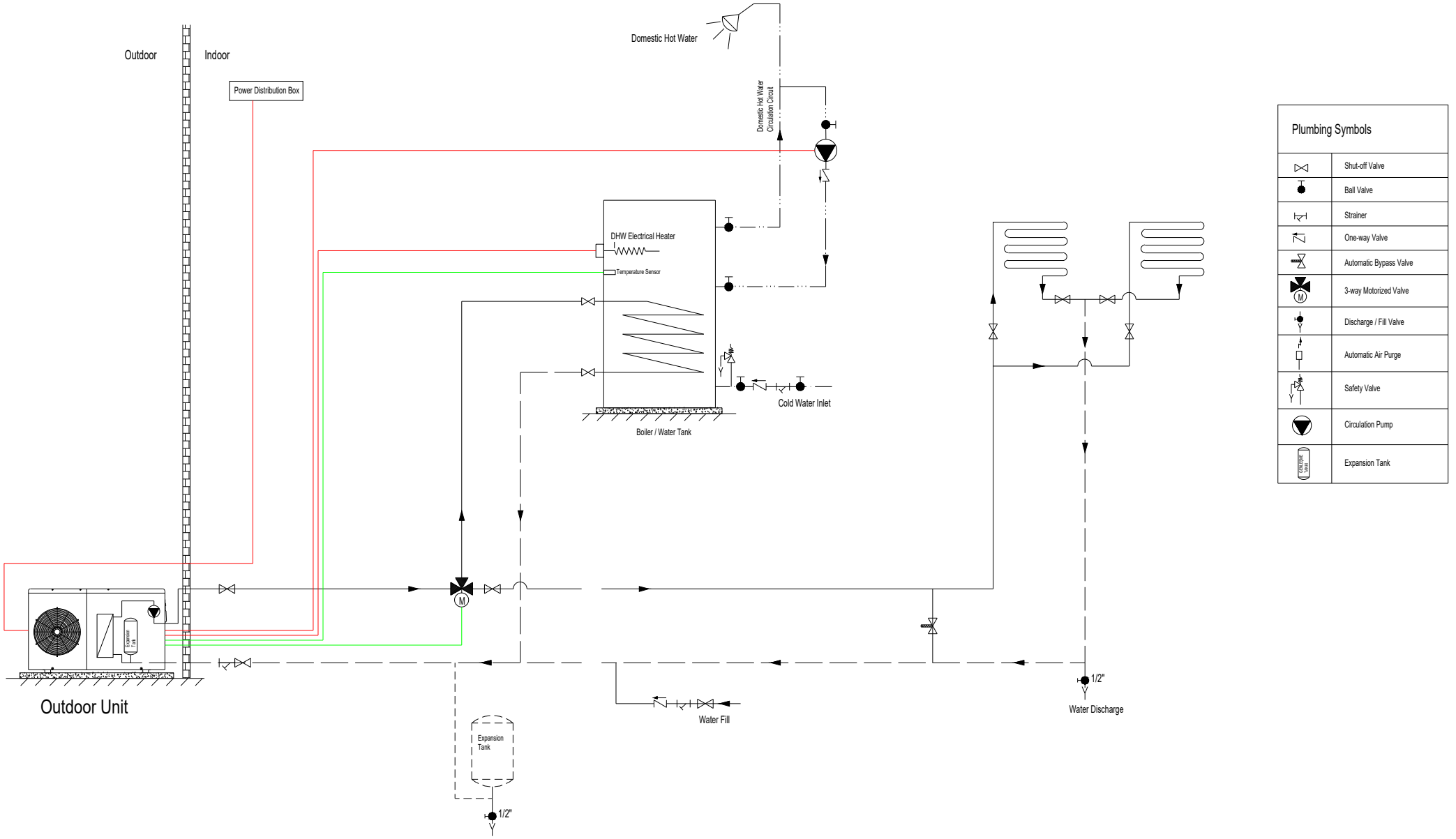
MONOBLOC HEAT PUMP INSTALLATION SCHEME-2



Plumbing Symbols	
	Shut-off Valve
	Ball Valve
	Strainer
	One-way Valve
	Automatic Bypass Valve
	3-way Motorized Valve
	Discharge / Fill Valve
	Automatic Air Purge
	Safety Valve
	Circulation Pump
	Expansion Tank

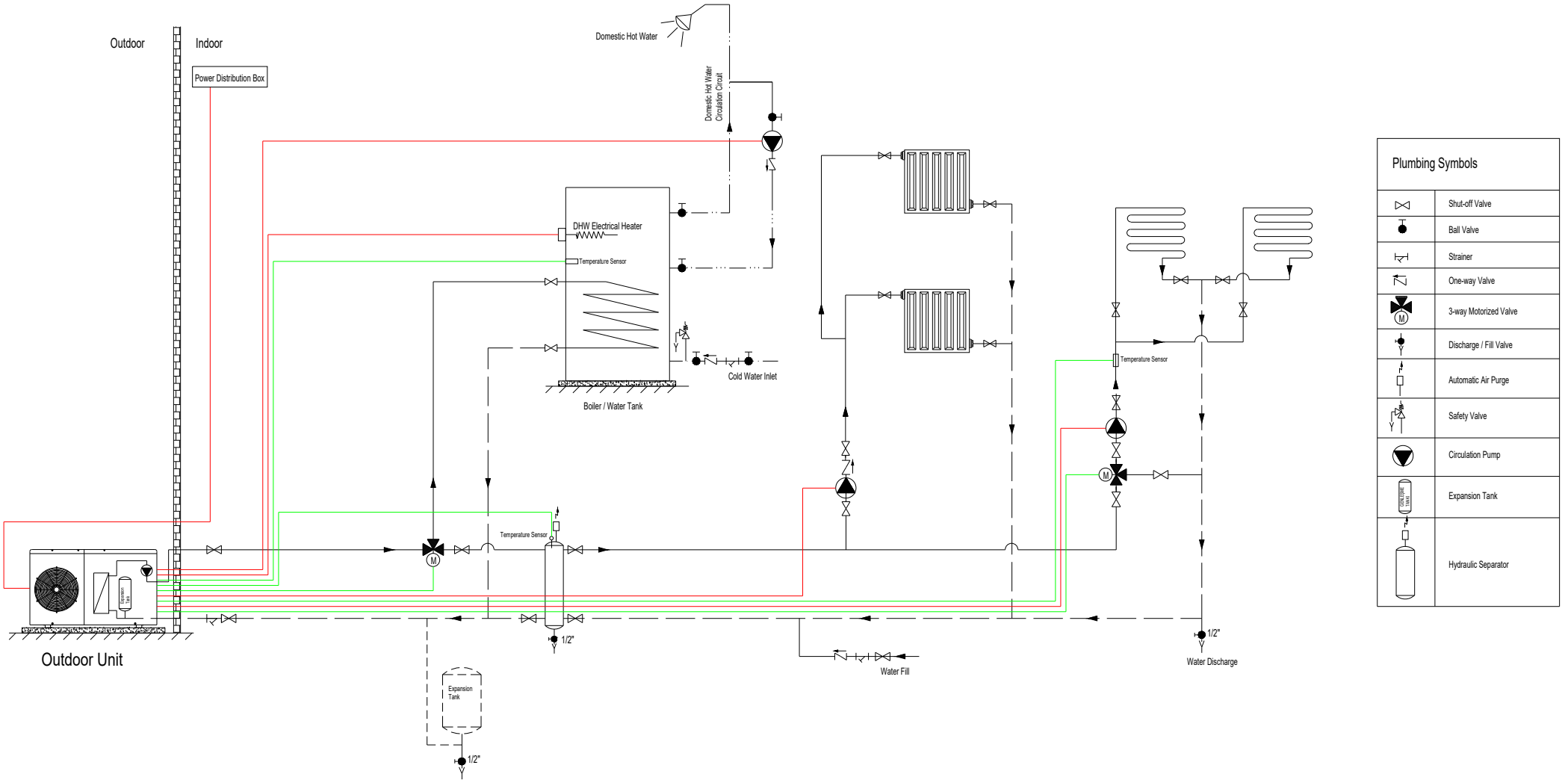
VMTEC

MONOBLOC HEAT PUMP INSTALLATION SCHEME-3 (With Boiler / Water Tank)



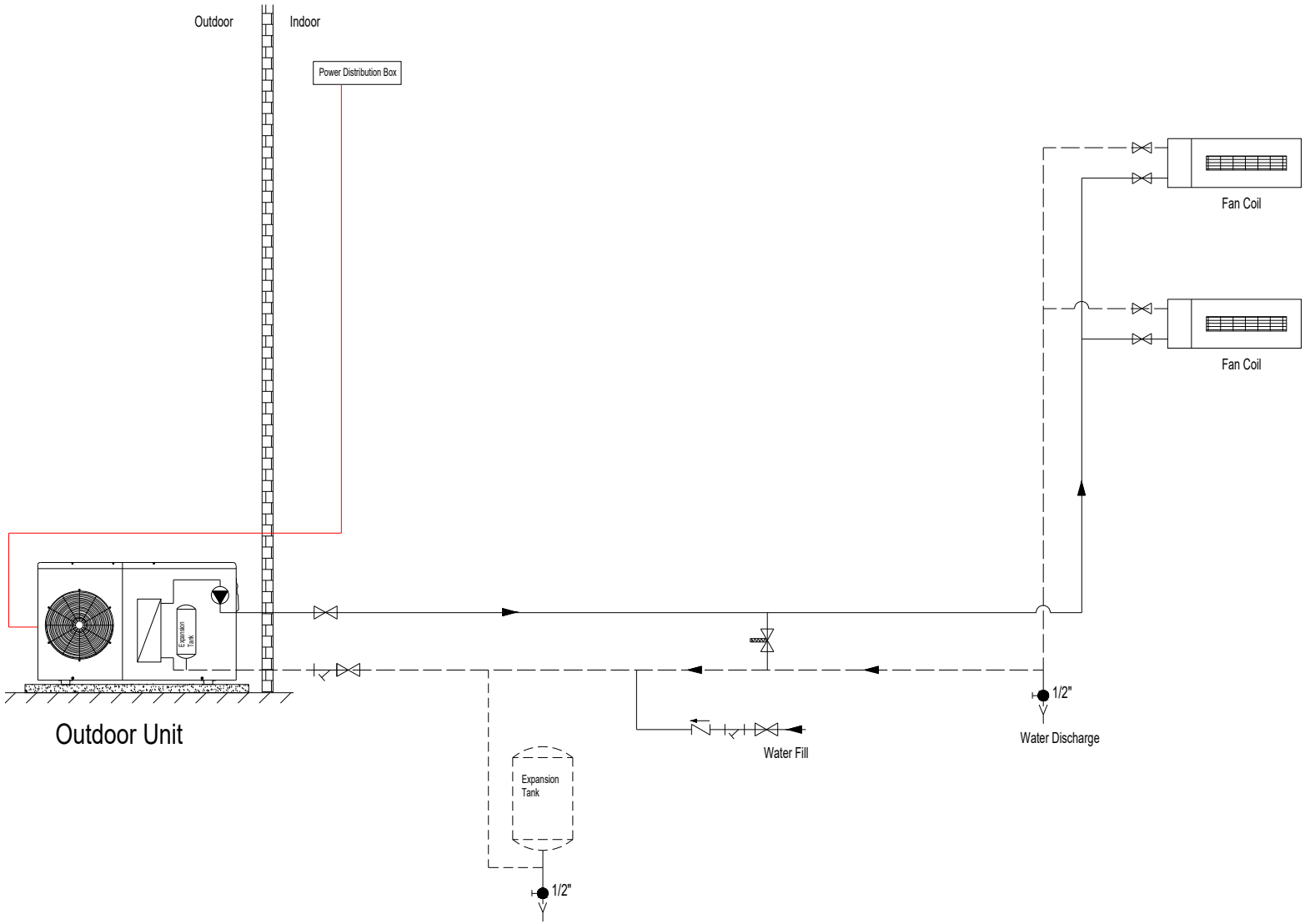
VMTEC

MONOBLOC HEAT PUMP INSTALLATION SCHEME-4 (With Boiler / Water Tank)



VMTEC

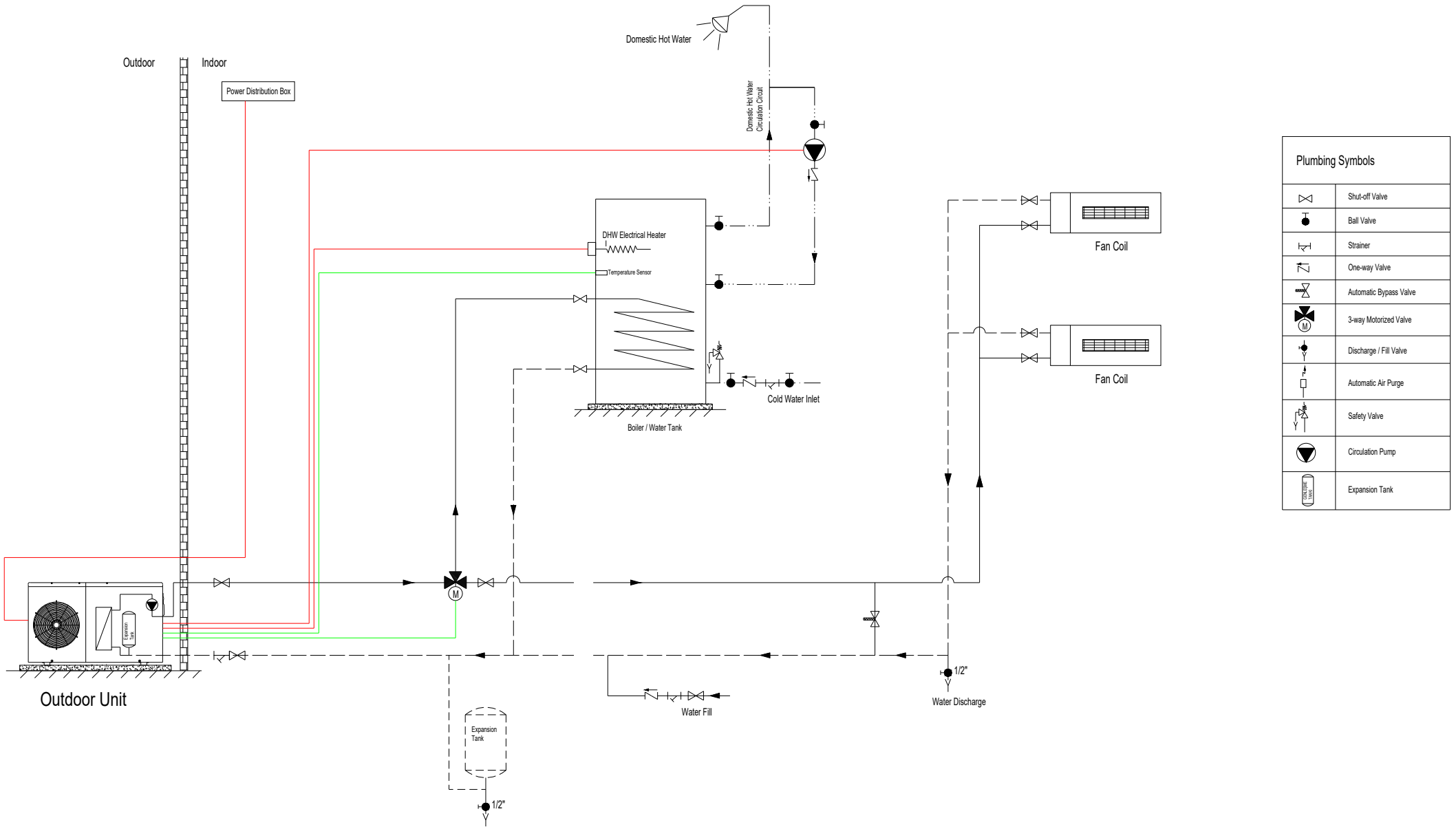
MONOBLOC HEAT PUMP INSTALLATION SCHEME-5 (With Hydraulic Separator)



Plumbing Symbols	
	Shut-off Valve
	Ball Valve
	Strainer
	One-way Valve
	Automatic Bypass Valve
	Discharge / Fill Valve
	Circulation Pump
	Expansion Tank

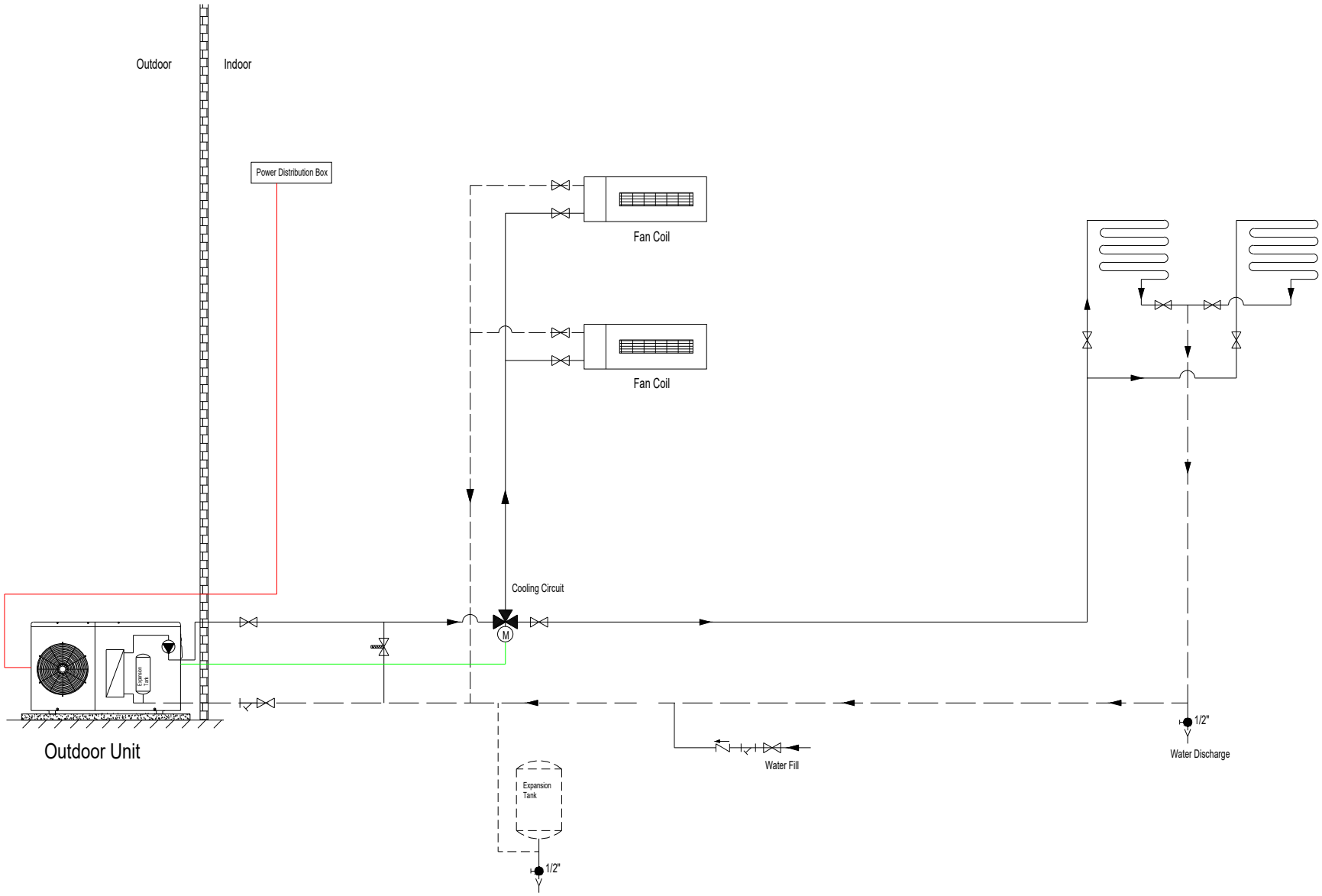
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MONOBLOC HEAT PUMP INSTALLATION SCHEME-6 (Heating + Cooling)

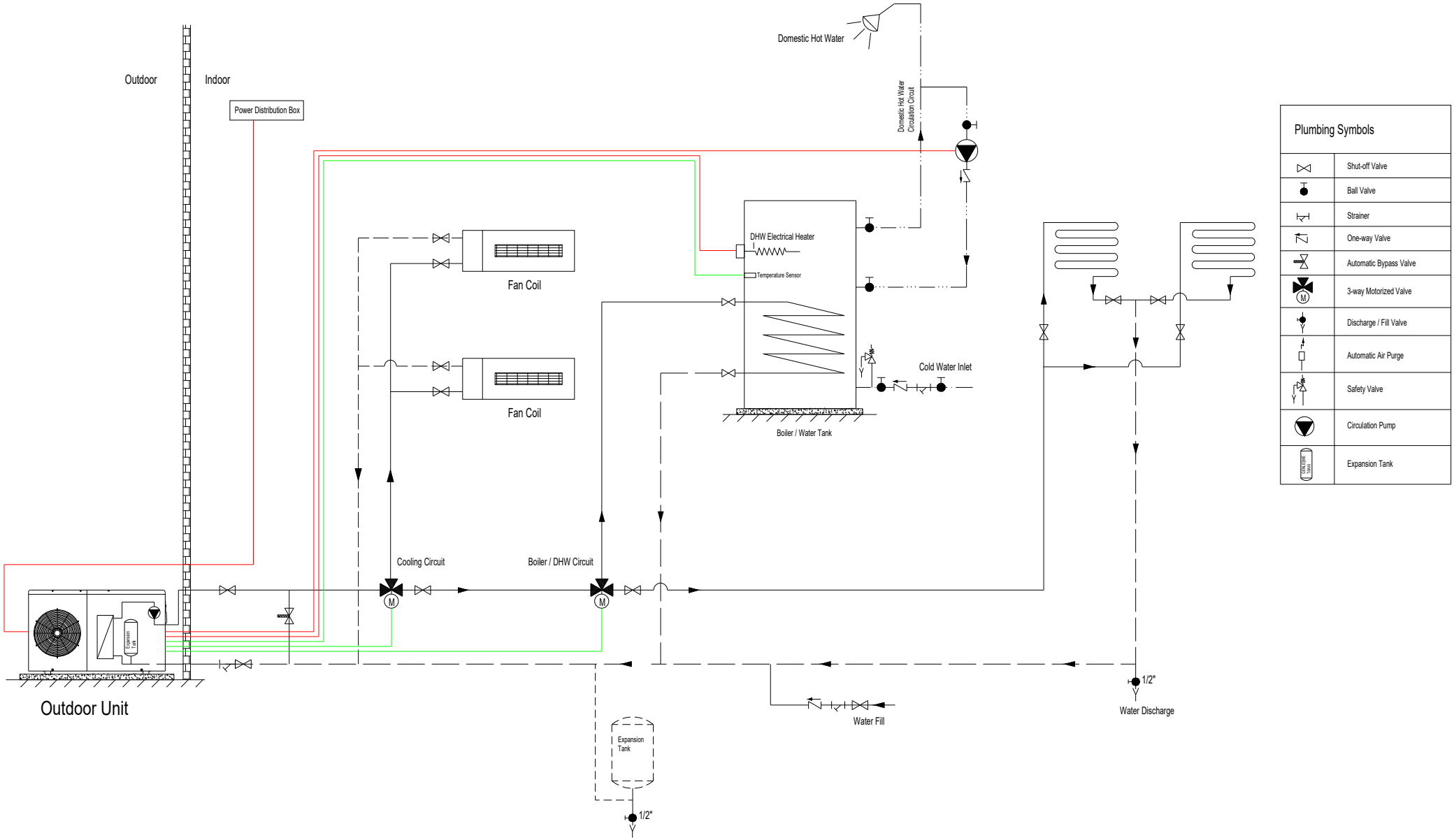


VMTEC

MONOBLOC HEAT PUMP INSTALLATION SCHEME-7 (Heating + Cooling + DHW)

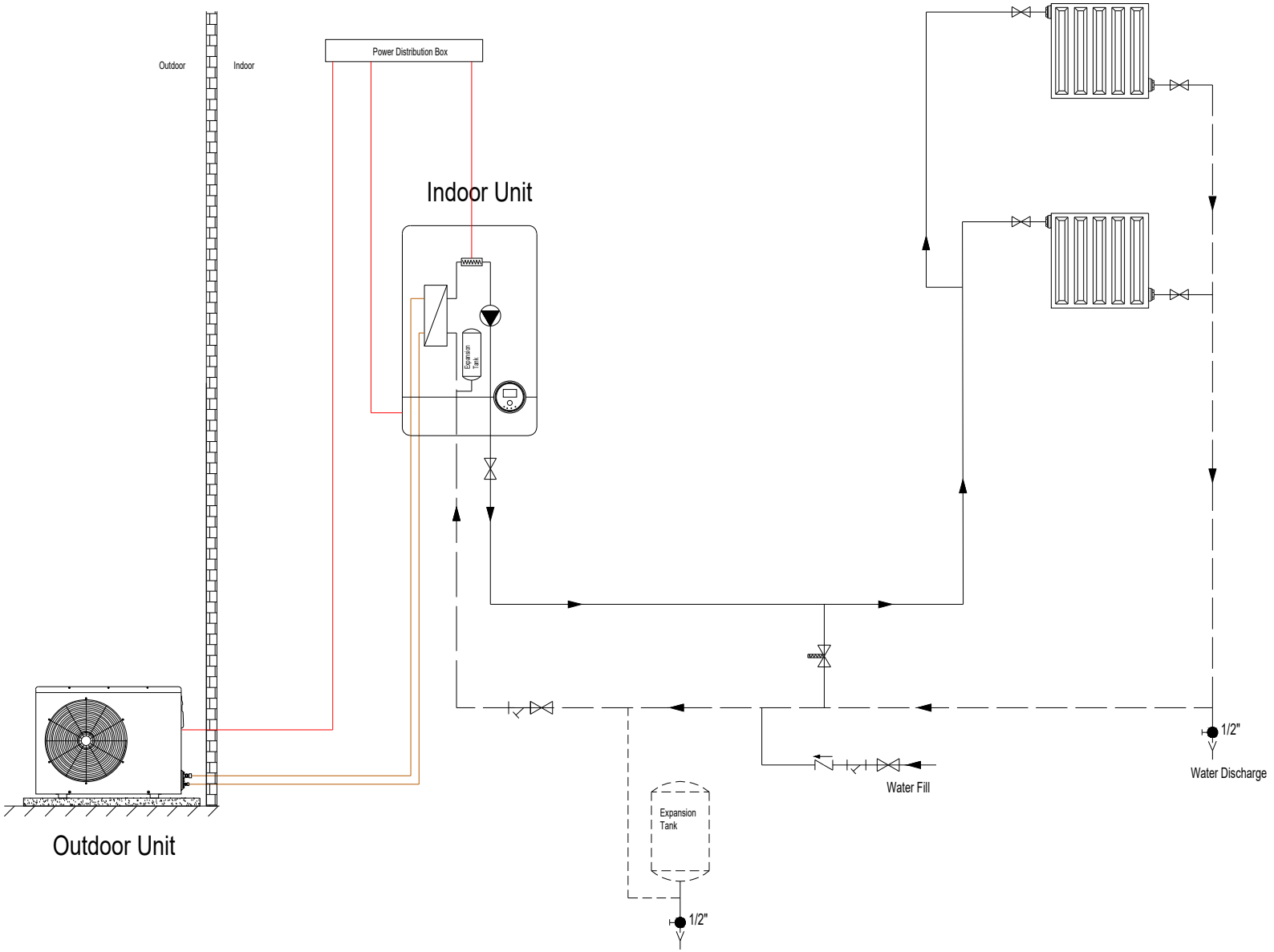


MONOBLOC HEAT PUMP INSTALLATION SCHEME-8 (Heating / Under Floor Heating + Cooling / Fan Coil)



VMTEC

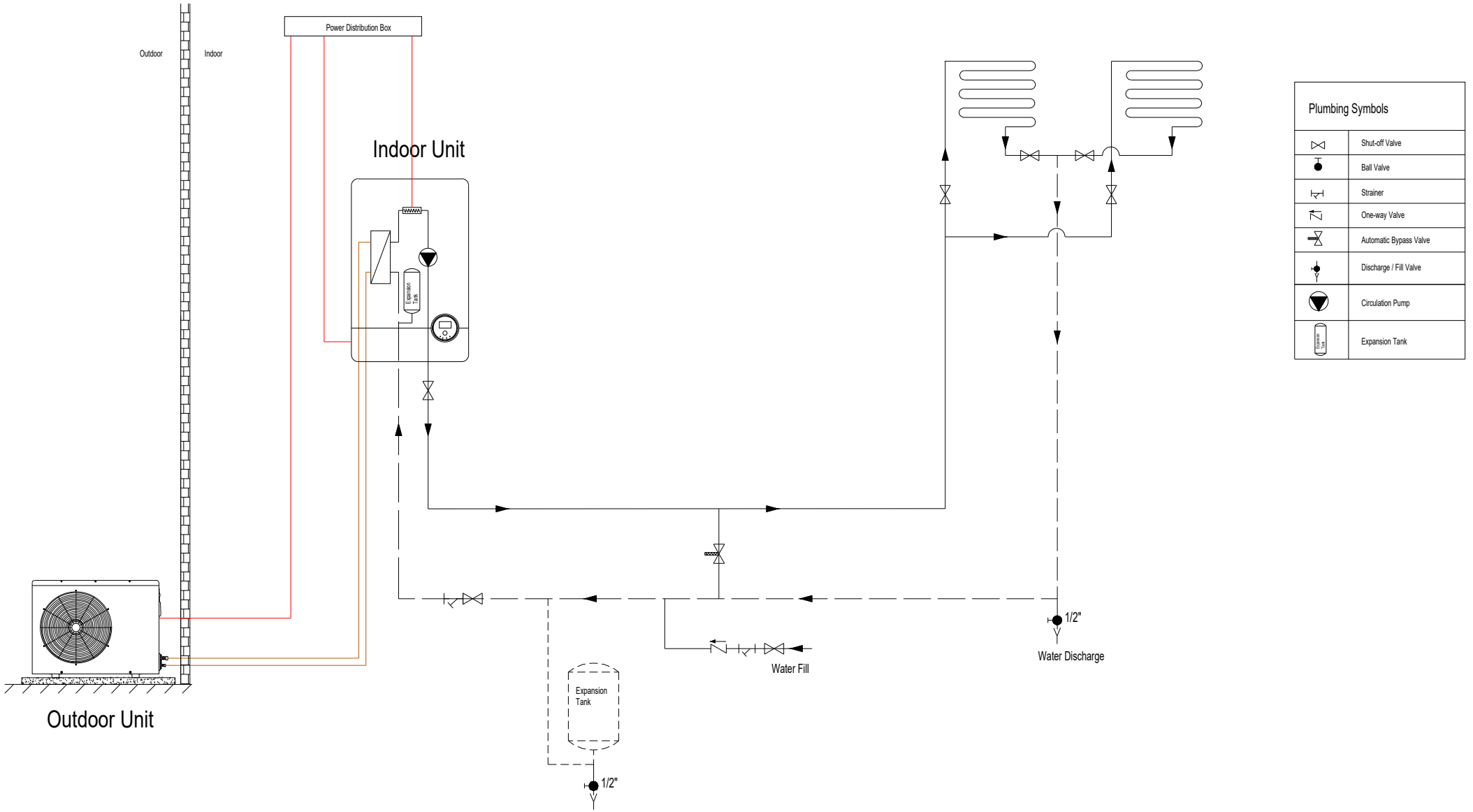
MONOBLOC HEAT PUMP INSTALLATION SCHEME-10 (Heating / Under Floor Heating + Cooling / Fan Coil + DHW)



Plumbing Symbols	
	Shut-off Valve
	Ball Valve
	Strainer
	One-way Valve
	Automatic Bypass Valve
	Discharge / Fill Valve
	Circulation Pump
	Expansion Tank

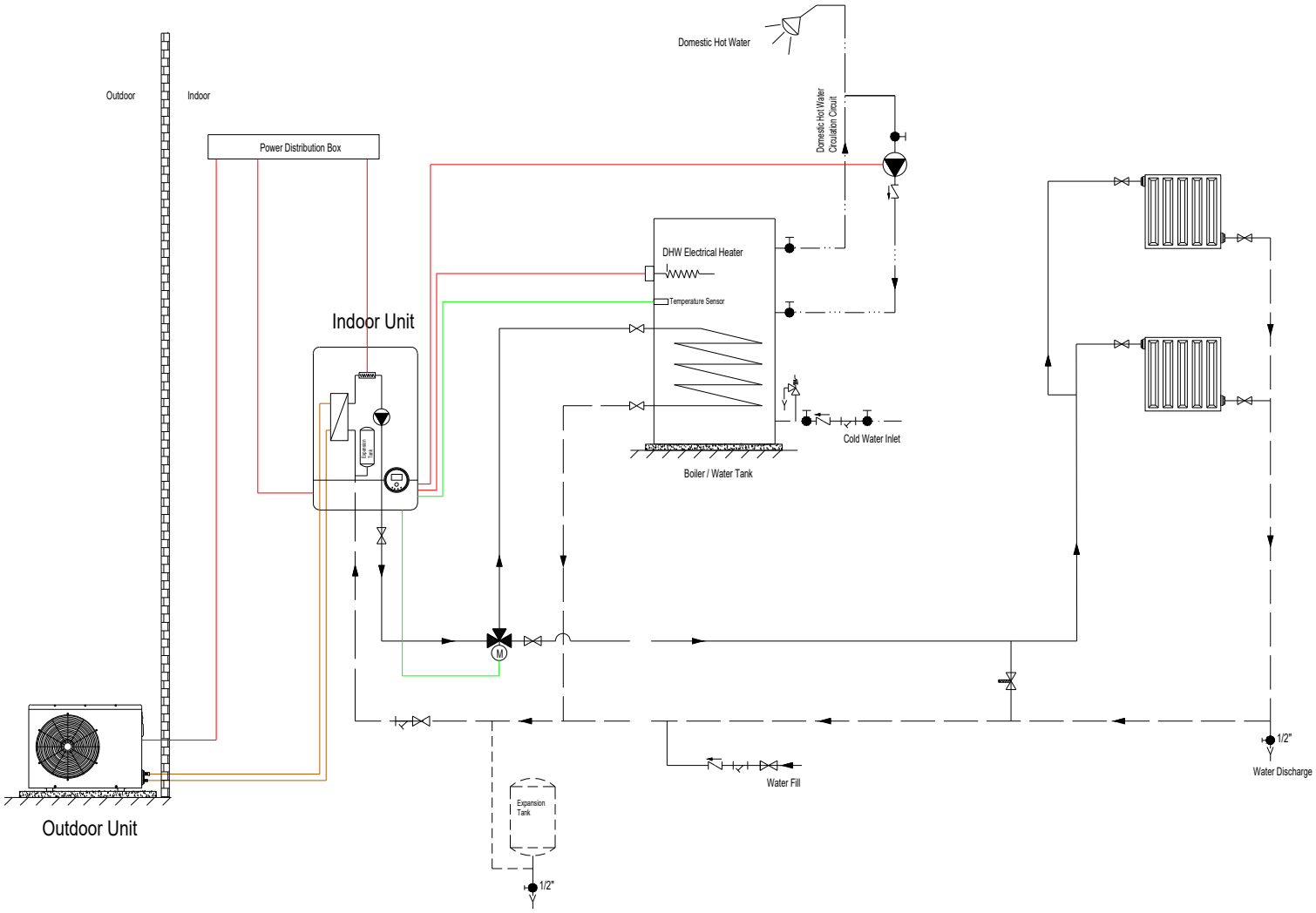
VMTEC

SPLIT HEAT PUMP INSTALLATION SCHEME-1



VMTEC

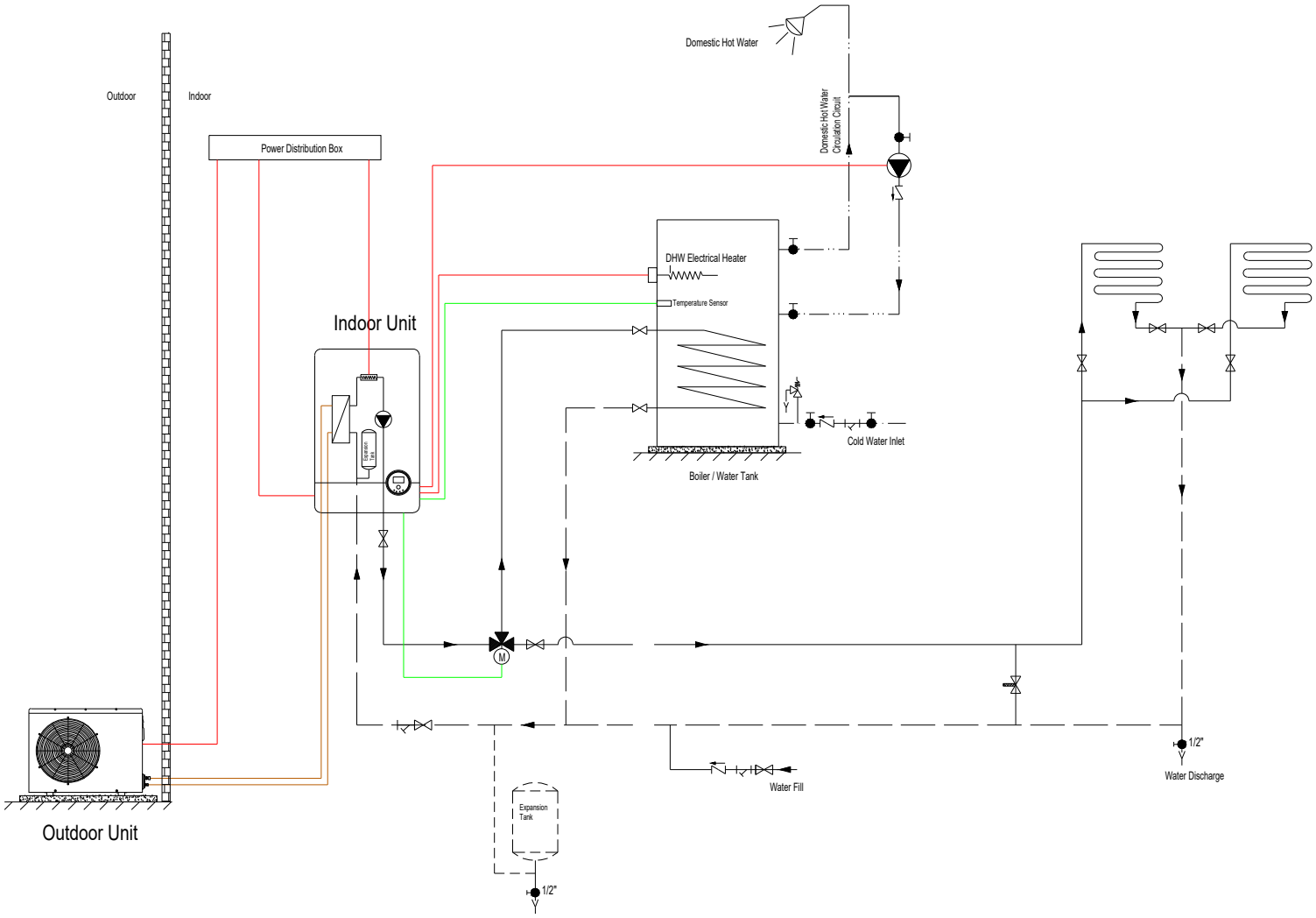
SPLIT HEAT PUMP INSTALLATION SCHEME-2



Plumbing Symbols	
	Shut-off Valve
	Ball Valve
	Strainer
	One-way Valve
	Automatic Bypass Valve
	3-way Motorized Valve
	Discharge / Fill Valve
	Automatic Air Purge
	Safety Valve
	Circulation Pump
	Expansion Tank

VMTEC

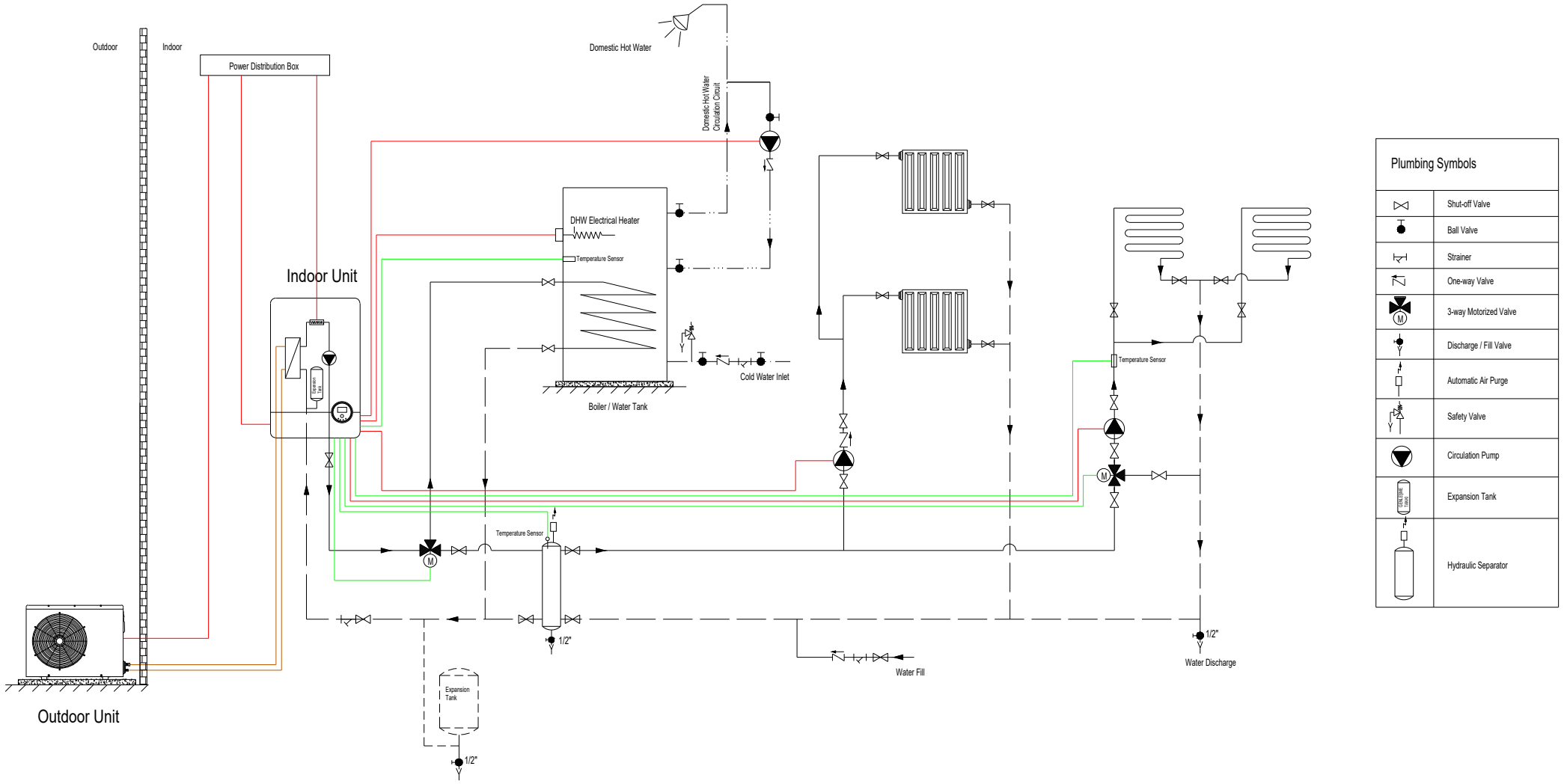
SPLIT HEAT PUMP INSTALLATION SCHEME-3 (With Boiler / Water Tank)



Plumbing Symbols	
	Shut-off Valve
	Ball Valve
	Strainer
	One-way Valve
	Automatic Bypass Valve
	3-way Motorized Valve
	Discharge / Fill Valve
	Automatic Air Purge
	Safety Valve
	Circulation Pump
	Expansion Tank

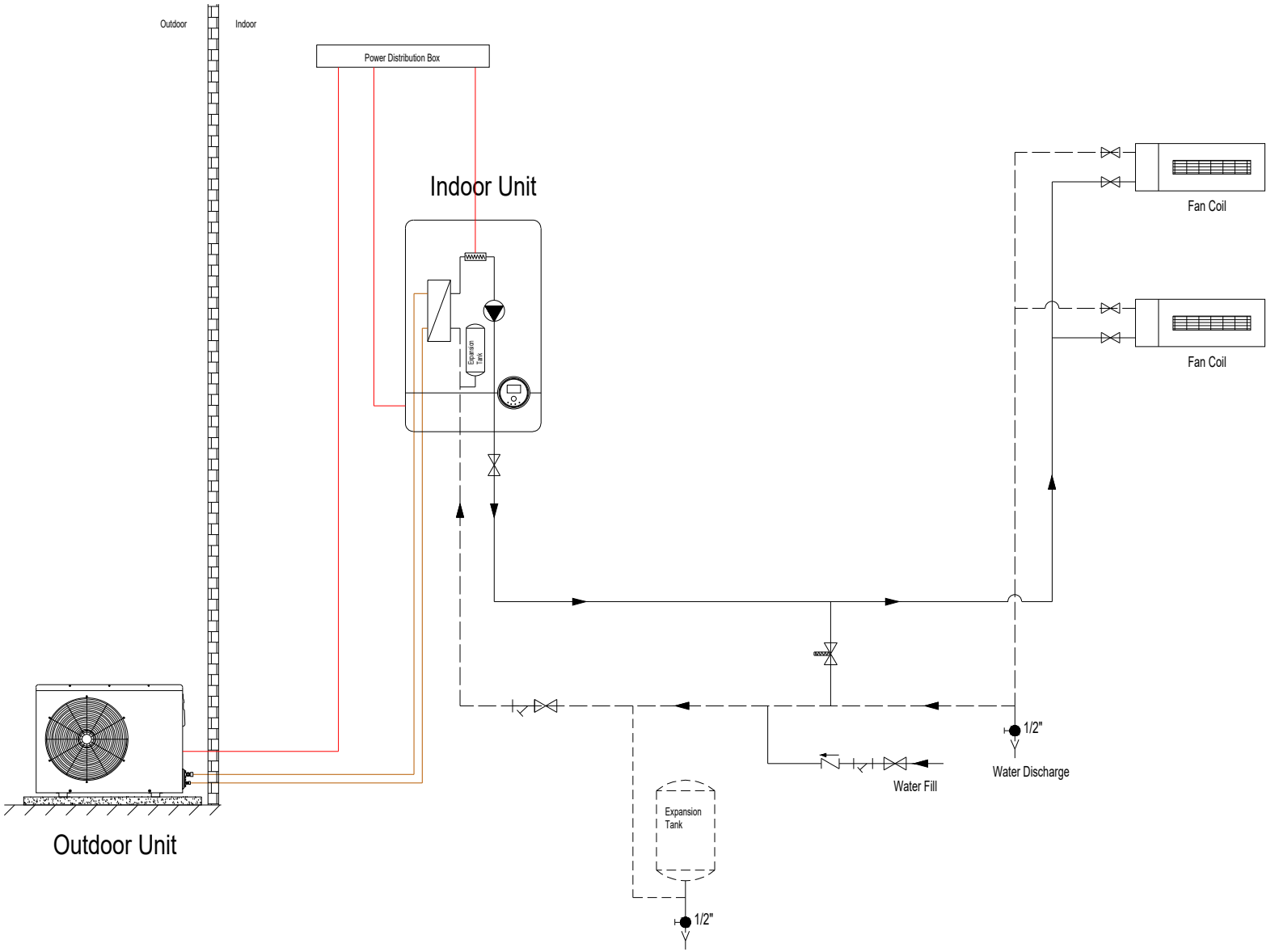
VMTEC

SPLIT HEAT PUMP INSTALLATION SCHEME-4 (With Boiler / Water Tank)



VMTEC

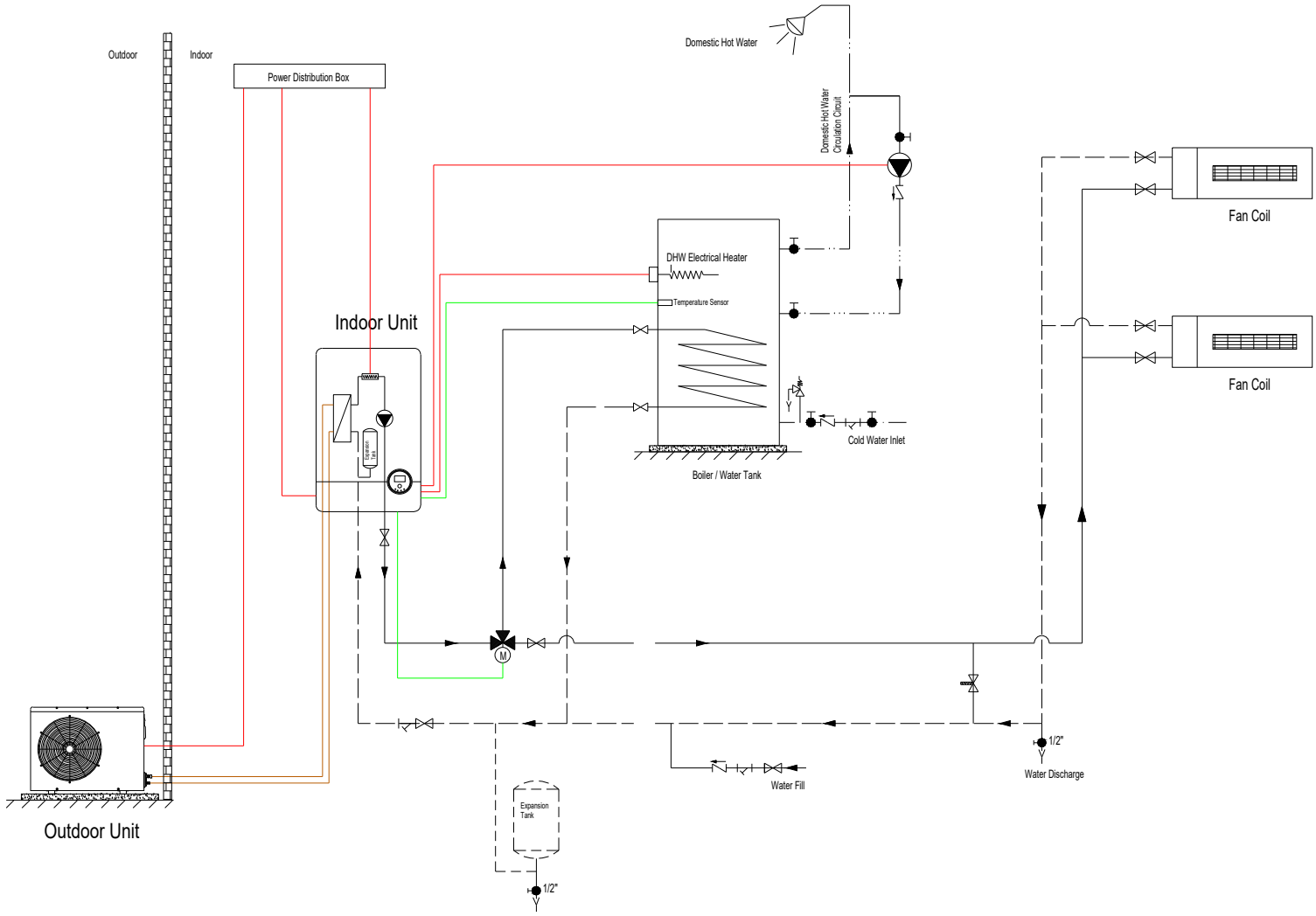
SPLIT HEAT PUMP INSTALLATION SCHEME-5 (With Hydraulic Separator)



Plumbing Symbols	
	Shut-off Valve
	Ball Valve
	Strainer
	One-way Valve
	Automatic Bypass Valve
	Discharge / Fill Valve
	Circulation Pump
	Expansion Tank

VMTEC

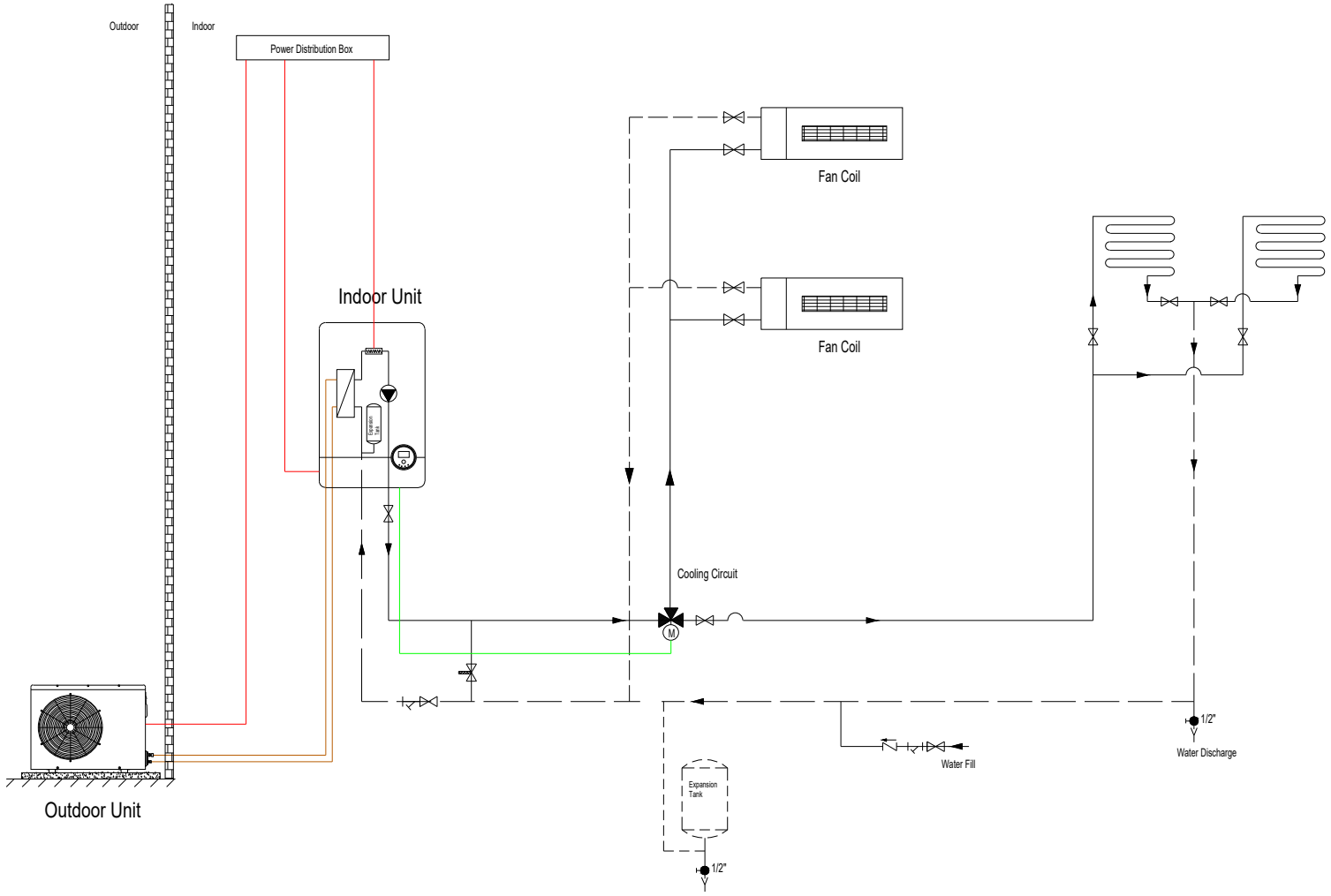
SPLIT HEAT PUMP INSTALLATION SCHEME-6 (Heating + Cooling)



Plumbing Symbols	
	Shut-off Valve
	Ball Valve
	Strainer
	One-way Valve
	Automatic Bypass Valve
	3-way Motorized Valve
	Discharge / Fill Valve
	Automatic Air Purge
	Safety Valve
	Circulation Pump
	Expansion Tank

VMTEC

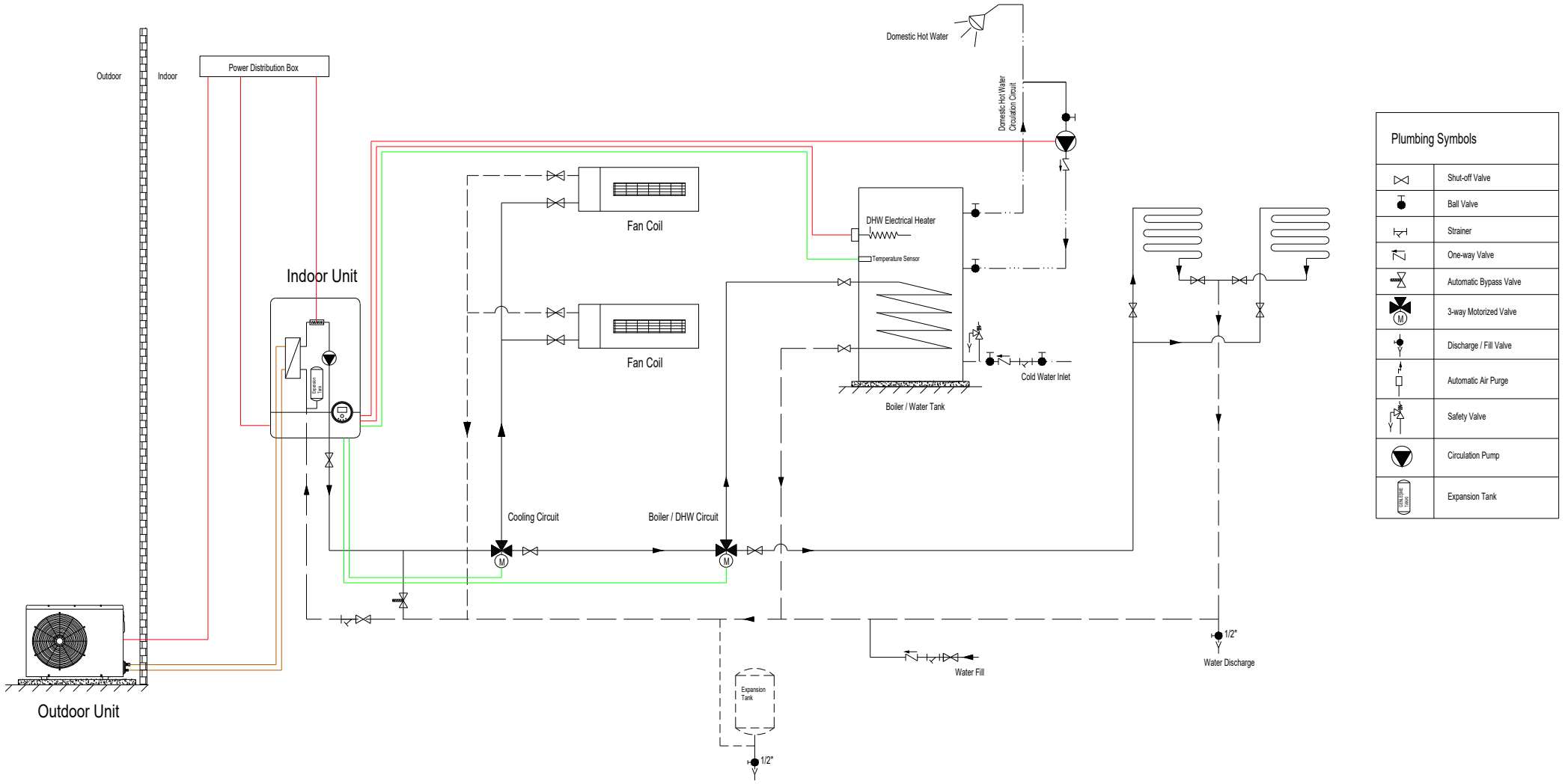
SPLIT HEAT PUMP INSTALLATION SCHEME-7 (Heating + Cooling + DHW)



Plumbing Symbols	
	Shut-off Valve
	Ball Valve
	Strainer
	One-way Valve
	Automatic Bypass Valve
	3-way Motorized Valve
	Discharge / Fill Valve
	Automatic Air Purge
	Safety Valve
	Circulation Pump
	Expansion Tank

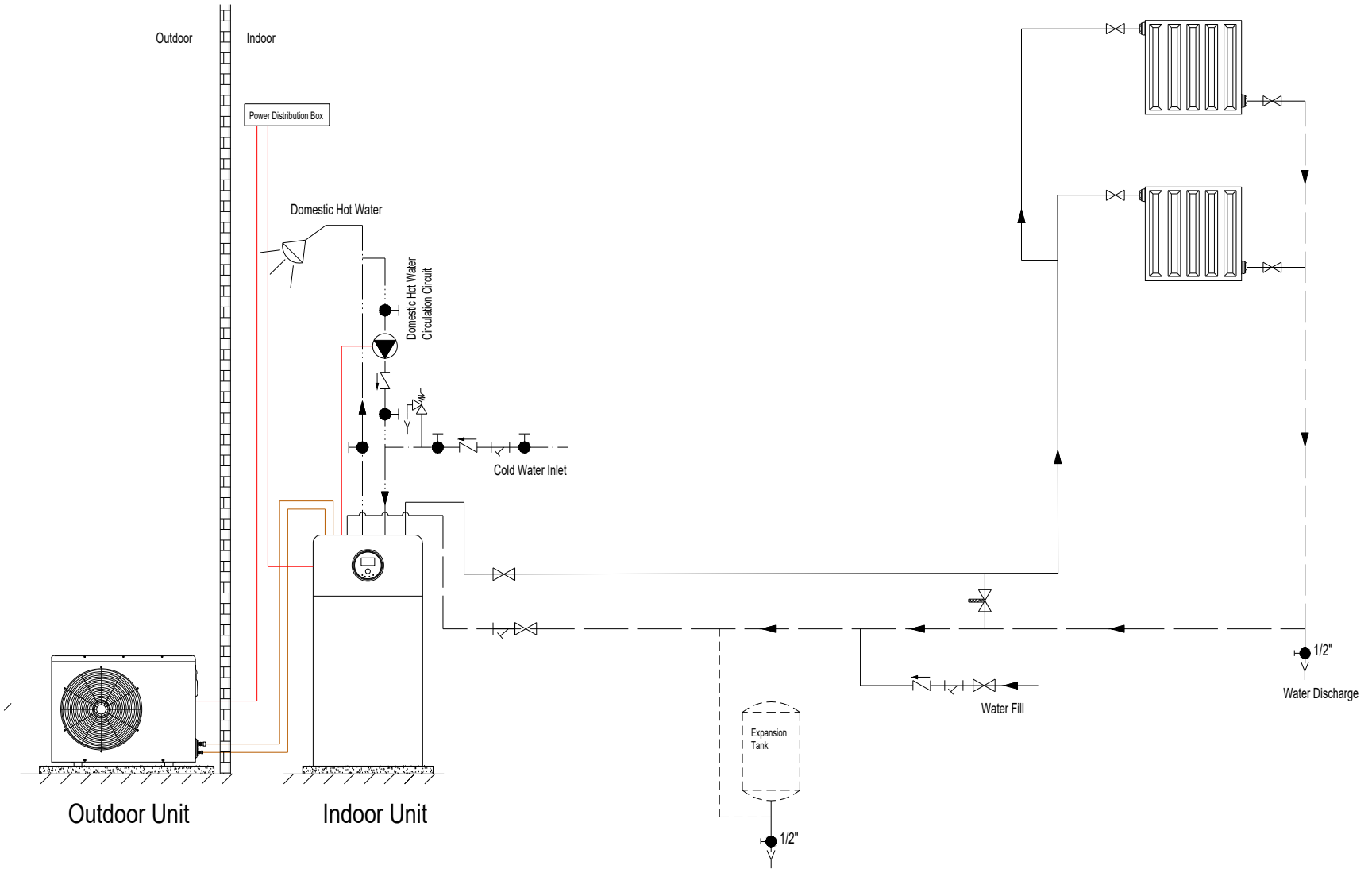
VMTEC

SPLIT HEAT PUMP INSTALLATION SCHEME-8 (Heating / Under Floor Heating + Cooling / Fan Coil)



VMTEC

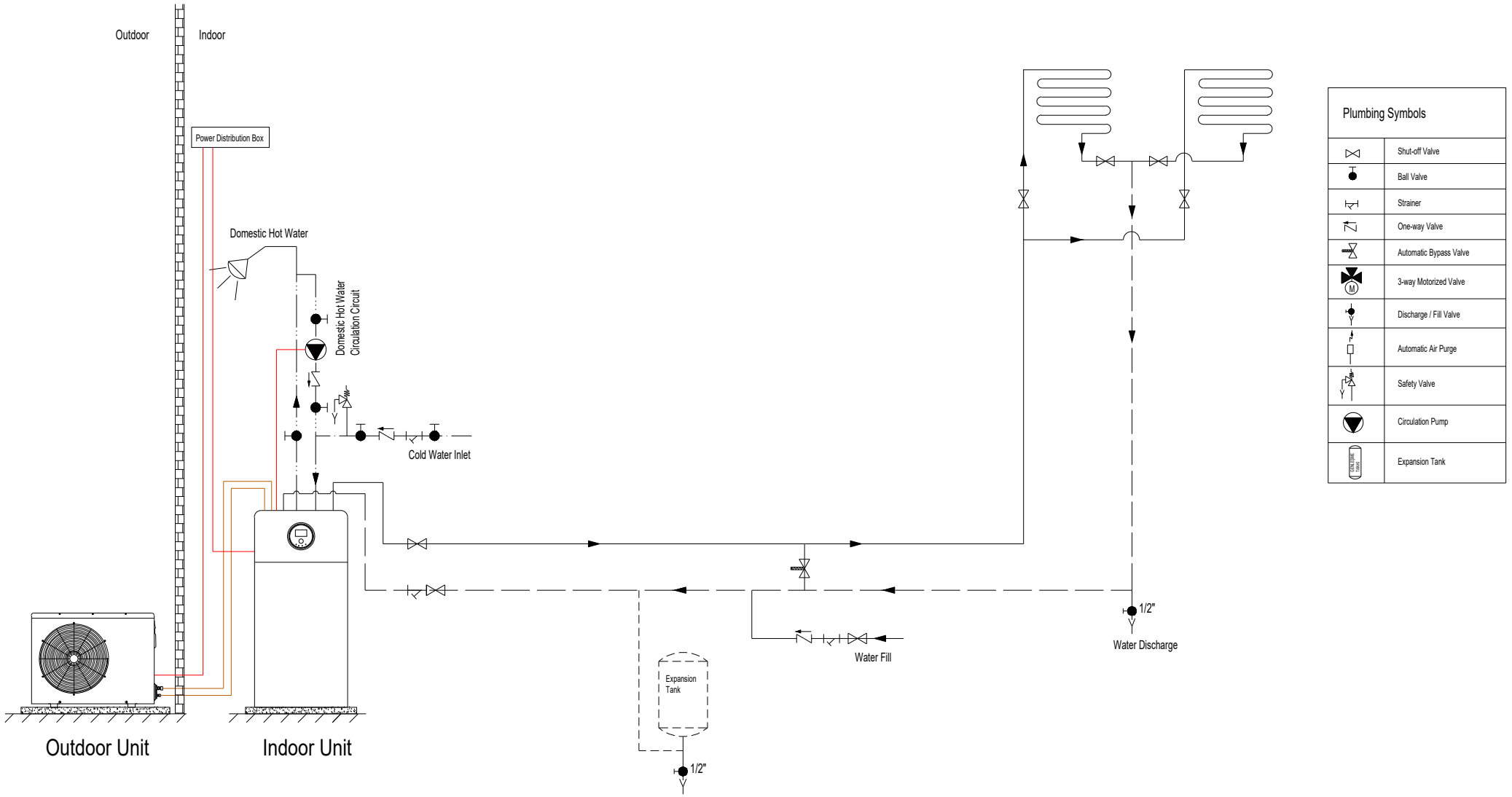
SPLIT HEAT PUMP INSTALLATION SCHEME-10 (Heating / Under Floor Heating + Cooling / Fan Coil + DHW)



Plumbing Symbols	
	Shut-off Valve
	Ball Valve
	Strainer
	One-way Valve
	Automatic Bypass Valve
	3-way Motorized Valve
	Discharge / Fill Valve
	Automatic Air Purge
	Safety Valve
	Circulation Pump
	Expansion Tank

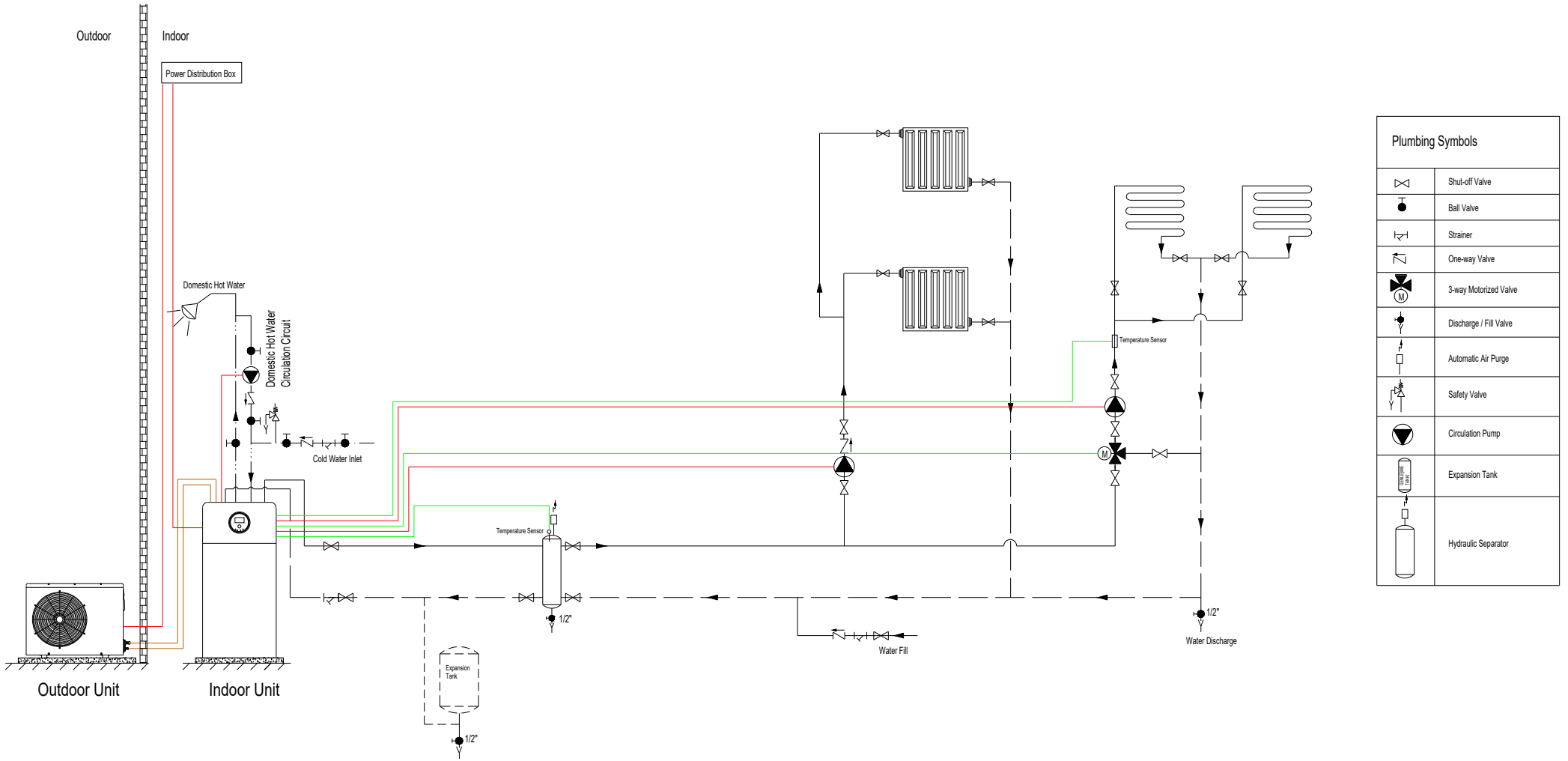
VMTEC

INTEGRA HEAT PUMP INSTALLATION SCHEME-1



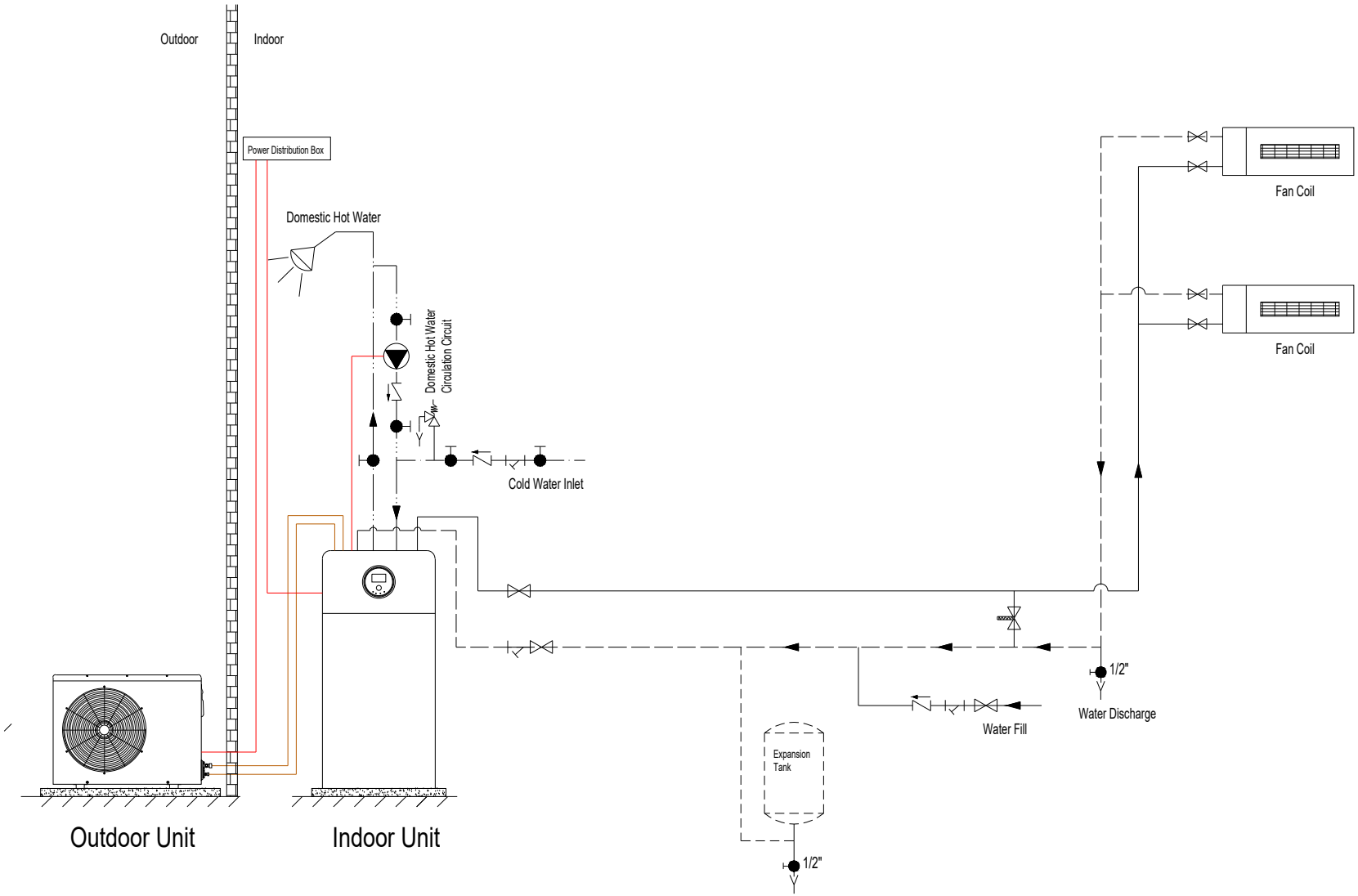
VMTEC

INTEGRA HEAT PUMP INSTALLATION SCHEME-2



VMTEC

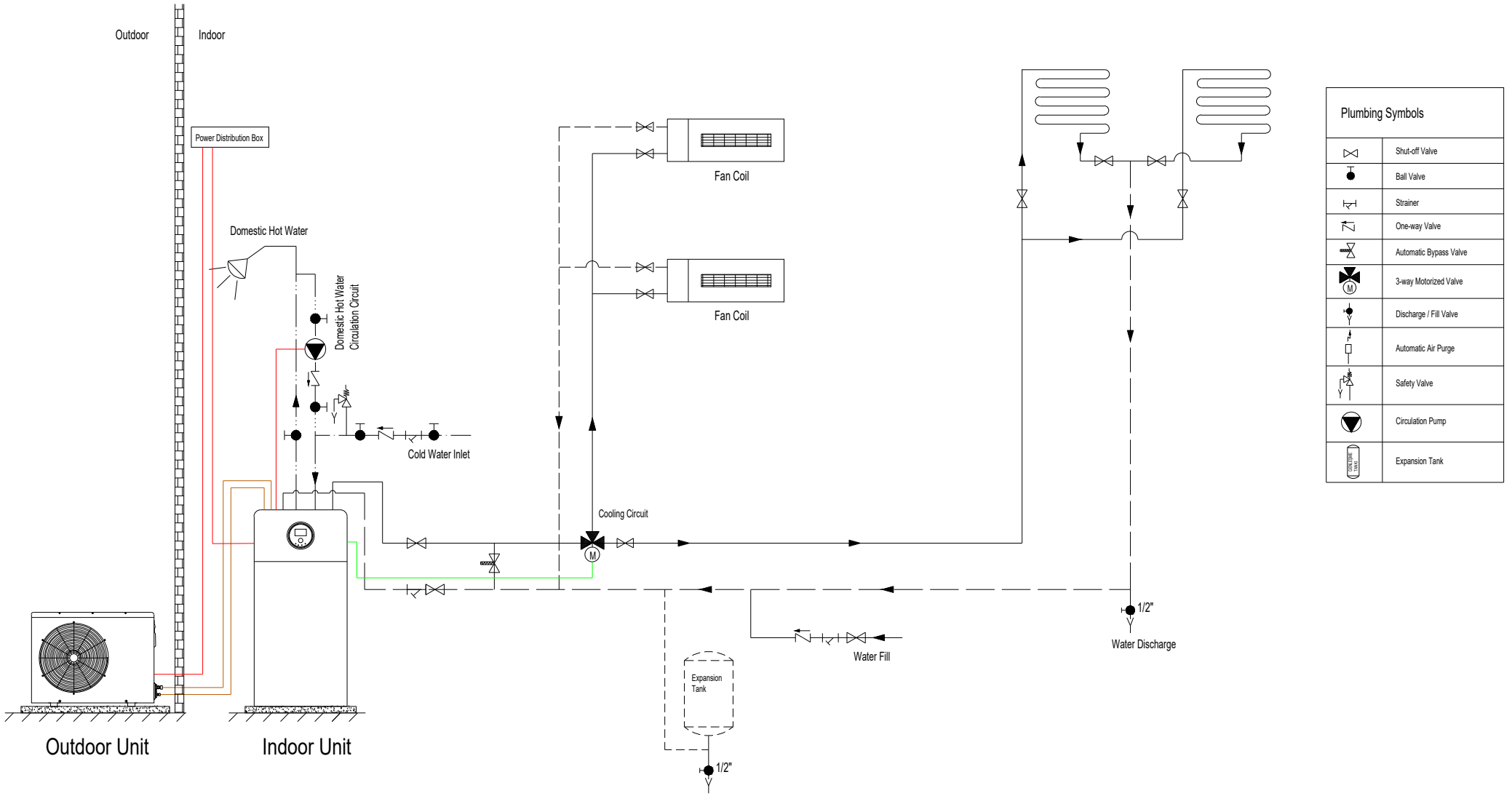
INTEGRA HEAT PUMP INSTALLATION SCHEME-3 (With Hydraulic Separator)



Plumbing Symbols	
	Shut-off Valve
	Ball Valve
	Strainer
	One-way Valve
	Automatic Bypass Valve
	3-way Motorized Valve
	Discharge / Fill Valve
	Automatic Air Purge
	Safety Valve
	Circulation Pump
	Expansion Tank

VMTEC

INTEGRA HEAT PUMP INSTALLATION SCHEME-4 (Heating + Cooling)



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INTEGRA HEAT PUMP INSTALLATION SCHEME-5 (Heating / Under Floor Heating + Cooling / Fan Coil)

Monobloc (4.4~8kW)						
Model	Power Supply	Operation Mode	Power Supply Cables EN 60335-1	Transmitting Cables EN 60335-1	Air Circuit Breaker (A)	Earth Leakage Breaker (No. of poles/A/mA)
Power Supply for Unit (TB1 Terminal)						
AHZ-044HCDS1	220-240V ~50Hz	--	3 x 2.5 mm²	2 x 0.75 mm²	16	2/16/30
		With DHW Tank Heater	3 x 4.0 mm²		32	2/32/30
AHZ-080HCDS1		--	3 x 4.0 mm²		20	2/20/30
		With DHW Tank Heater	3 x 6.0 mm²		40	2/40/30
Power Supply for Auxiliary Electric Heater (TB5 Terminal)						
AHZ-044HCDS1	220-240V ~50Hz	With Auxiliary Electric Heater	3 x 2.5 mm²	2 x 0.75 mm²	16	2/16/30
AHZ-080HCDS1		With Auxiliary Electric Heater	3 x 2.5 mm²		16	2/16/30

Monobloc (10~16kW)							
Model	Power Supply	Max. Operating Current (A)	Power Supply Cables EN 60335-1	Transmitting Cables EN 60335-1	Air Circuit Breaker (A)	Earth Leakage Breaker (No. of poles/A/mA)	Terminal Board
Power Supply for Unit (TB1 Terminal)							
AHZ-100HCDS1	220-240V ~50Hz	21.5	3 x 4 mm²	2 x 0.75 mm²	32	2/32/30	TB1 (L, N)
AHZ-120HCDS1		26.1	3 x 6 mm²		32	2/32/30	
AHZ-140HCDS1		29.3	3 x 6 mm²		32	2/32/30	
AHZ-160HCDS1		32	3 x 10 mm²		40	2/40/30	
AHZ-100HEDS1	380-415V 3N~50Hz	9.8	5 x 2.5 mm²		16	4/16/30	TB1 (L1, L2, L3, N)
AHZ-120HEDS1		11.8	5 x 2.5 mm²		16	4/16/30	
AHZ-140HEDS1		13.2	5 x 2.5 mm²		16	4/16/30	
AHZ-160HEDS1		15.7	5 x 2.5 mm²		16/20	4/(16/20)/30	
Power Supply for Auxiliary Electric Heater (TB7 Terminal)							
AHZ-100HCDS1	220-240V ~50Hz	28.7	3 x 6 mm²	5 x 0.75 mm²	32	2/32/30	TB7 (TH1,TH2,CA,CB,CM)
AHZ-120HCDS1							
AHZ-140HCDS1							
AHZ-160HCDS1							
AHZ-100HEDS1	380-415V 3N~50Hz	9.52	5 x 2.5 mm²		16	3/16/30	
AHZ-120HEDS1							
AHZ-140HEDS1							
AHZ-160HEDS1							
Power Supply for DHW Electric Heater (TB5 Terminal)							
AHZ-100HCDS1	220-240V ~50Hz	15	3 x 2.5 mm²	/	16	2/16/30	TB5 (L, N)
AHZ-120HCDS1							
AHZ-140HCDS1							
AHZ-160HCDS1							
AHZ-100HEDS1	220-240V ~50Hz	15	3 x 2.5 mm²	/	16	2/16/30	TB5 (L, N)
AHZ-120HEDS1							
AHZ-140HEDS1							
AHZ-160HEDS1							

Split / Integra Outdoor Unit						
Model	Power Supply	Max. Operating Current (A)	Power Supply Cables EN 60335-1	Transmitting Cables EN 60335-1	Air Circuit Breaker (A)	Earth Leakage Breaker (No. of poles/A/mA)
AHW-044HCDS1	220-240V ~50Hz	9.8	3 x 2.5 mm²	2 x 0.75 mm²	16	2/16/30
AHW-060HCDS1		12	3 x 2.5 mm²		16	2/16/30
AHW-080HCDS1		16.8	3 x 4.0 mm²		20	2/20/30
AHW-100HCDS1	220-240V ~50Hz	21.9	3 x 4.0 mm²		32	2/32/30
AHW-120HCDS1		27.1	3 x 6.0 mm²		32	2/32/30
AHW-140HCDS1		29.5	3 x 6.0 mm²		32	2/32/30
AHW-160HCDS1		32	3 x 6.0 mm²		40	2/40/30
AHW-100HEDS1	380-415V 3N~50Hz	9.7	5 x 2.5 mm²		16	4/16/30
AHW-120HEDS1		11.8	5 x 2.5 mm²		16	4/16/30
AHW-140HEDS1		13.3	5 x 2.5 mm²		16	4/16/30
AHW-160HEDS1		15.7	5 x 2.5 mm²		16/20	4/(16/20)/30

Split Indoor Unit							
Model	Power Supply	Operation Mode	Max. Operating Current (A)	Power Supply Cables EN 60335-1	Transmitting Cables EN 60335-1	Air Circuit Breaker (A)	Earth Leakage Breaker (No. of poles/A/mA)
AHM-044HCDSAA	220-240V ~50Hz	Without DHW Electric Heater	16	3 x 2.5 mm²	2 x 0.75 mm²	20	2/20/30
		With DHW Electric Heater	31	3 x 6.0 mm²		40	2/40/30
AHM-060HCDSAA		Without DHW Electric Heater	16	3 x 2.5 mm²		20	2/20/30
		With DHW Electric Heater	31	3 x 6.0 mm²		40	2/40/30
AHM-080HCDSAA		Without DHW Electric Heater	16	3 x 2.5 mm²		20	2/20/30
		With DHW Electric Heater	31	3 x 6.0 mm²		40	2/40/30
AHM-100HCDSAA	220-240V ~50Hz	Without DHW Electric Heater	1.91	3 x 2.5 mm²	2 x 0.75 mm²	16	2/16/30
		With DHW Electric Heater (3kW)	16.26	3 x 4.0 mm²		20	2/20/30
		Auxiliary Electric Heater	28.7	3 x 6.0 mm²	--	32	2/32/30
AHM-120HCDSAA		Without DHW Electric Heater	1.91	3 x 2.5 mm²	2 x 0.75 mm²	16	2/16/30
		With DHW Electric Heater (3kW)	16.26	3 x 4.0 mm²		20	2/20/30
		Auxiliary Electric Heater	28.7	3 x 6.0 mm²	--	32	2/32/30
AHM-140HCDSAA		Without DHW Electric Heater	1.91	3 x 2.5 mm²	2 x 0.75 mm²	16	2/16/30
		With DHW Electric Heater (3kW)	16.26	3 x 4.0 mm²		20	2/20/30
		Auxiliary Electric Heater	28.7	3 x 6.0 mm²	--	32	2/32/30
AHM-160HCDSAA		Without DHW Electric Heater	1.91	3 x 2.5 mm²	2 x 0.75 mm²	16	2/16/30
		With DHW Electric Heater (3kW)	16.26	3 x 4.0 mm²		20	2/20/30
		Auxiliary Electric Heater	28.7	3 x 6.0 mm²	--	32	2/32/30
AHM-100HEDSAA	220-240V ~50Hz	Without DHW Electric Heater	1.91	3 x 2.5 mm²	2 x 0.75 mm²	16	2/16/30
		With DHW Electric Heater (3kW)	16.26	3 x 4.0 mm²		20	2/20/30
	380-415V 3N~50Hz	Auxiliary Electric Heater	9.66	4 x 2.5 mm²	--	16	3/16/30
AHM-120HEDSAA	220-240V ~50Hz	Without DHW Electric Heater	1.91	3 x 2.5 mm²	2 x 0.75 mm²	16	2/16/30
		With DHW Electric Heater (3kW)	16.26	3 x 4.0 mm²		20	2/20/30
	380-415V 3N~50Hz	Auxiliary Electric Heater	9.66	4 x 2.5 mm²	--	16	3/16/30
AHM-140HEDSAA	220-240V ~50Hz	Without DHW Electric Heater	1.91	3 x 2.5 mm²	2 x 0.75 mm²	16	2/16/30
		With DHW Electric Heater (3kW)	16.26	3 x 4.0 mm²		20	2/20/30
	380-415V 3N~50Hz	Auxiliary Electric Heater	9.66	4 x 2.5 mm²	--	16	3/16/30
AHM-160HEDSAA	220-240V ~50Hz	Without DHW Electric Heater	1.91	3 x 2.5 mm²	2 x 0.75 mm²	16	2/16/30
		With DHW Electric Heater (3kW)	16.26	3 x 4.0 mm²		20	2/20/30
	380-415V 3N~50Hz	Auxiliary Electric Heater	9.66	4 x 2.5 mm²	--	16	3/16/30

Integra							
Model	Power Supply	Operation Mode	Max. Operating Current (A)	Power Supply Cables EN 60335-1	Transmitting Cables EN 60335-1	Air Circuit Breaker (A)	Earth Leakage Breaker (No. of poles/A/mA)
AHS-044HCDSAA-23	220-240V ~50Hz	With DHW Electric Heater	29.56	3 x 6.0 mm²	2 x 0.75 mm²	40	2/40/30
AHS-060HCDSAA-23		With DHW Electric Heater	29.56	3 x 6.0 mm²		40	2/40/30
AHS-080HCDSAA-23		With DHW Electric Heater	29.56	3 x 6.0 mm²		40	2/40/30
AHS-100HCDSAA-23	220-240V ~50Hz	With DHW Electric Heater (1.5kW)	8.75	3 x 2.5 mm²	2 x 0.75 mm²	16	2/16/30
		Auxiliary Electric Heater	28.7	3 x 6.0 mm²	--	32	2/32/30
AHS-120HCDSAA-23		With DHW Electric Heater (1.5kW)	8.75	3 x 2.5 mm²	2 x 0.75 mm²	16	2/16/30
		Auxiliary Electric Heater	28.7	3 x 6.0 mm²	--	32	2/32/30
AHS-140HCDSAA-23		With DHW Electric Heater (1.5kW)	8.75	3 x 2.5 mm²	2 x 0.75 mm²	16	2/16/30
		Auxiliary Electric Heater	28.7	3 x 6.0 mm²	--	32	2/32/30
AHS-160HCDSAA-23		With DHW Electric Heater (1.5kW)	8.75	3 x 2.5 mm²	2 x 0.75 mm²	16	2/16/30
		Auxiliary Electric Heater	28.7	3 x 6.0 mm²	--	32	2/32/30
AHS-100HEDSAA-23	220-240V ~50Hz	With DHW Electric Heater (1.5kW)	8.75	3 x 2.5 mm²	2 x 0.75 mm²	16	2/16/30
	380-415V 3N~50Hz	Auxiliary Electric Heater	10.03	4 x 2.5 mm²	--	16	2/16/30
AHS-120HEDSAA-23	220-240V ~50Hz	With DHW Electric Heater (1.5kW)	8.75	3 x 2.5 mm²	2 x 0.75 mm²	16	2/16/30
	380-415V 3N~50Hz	Auxiliary Electric Heater	10.03	4 x 2.5 mm²	--	16	2/16/30
AHS-140HEDSAA-23	220-240V ~50Hz	With DHW Electric Heater (1.5kW)	8.75	3 x 2.5 mm²	2 x 0.75 mm²	16	2/16/30
	380-415V 3N~50Hz	Auxiliary Electric Heater	10.03	4 x 2.5 mm²	--	16	2/16/30
AHS-160HEDSAA-23	220-240V ~50Hz	With DHW Electric Heater (1.5kW)	8.75	3 x 2.5 mm²	2 x 0.75 mm²	16	2/16/30
	380-415V 3N~50Hz	Auxiliary Electric Heater	10.03	4 x 2.5 mm²	--	16	2/16/30