

WATER-HEATED CO₂ VAPORIZER (WHV)

Energy-free vaporization of liquid carbon dioxide

Use circulating water in a shell and tube heat exchanger to vaporize liquid CO₂ and **reduce your plant cooling load and energy costs.**

FEATURES

- **HIGH QUALITY CONSTRUCTION**
 - ASME-CODED Heat Exchanger for Operating Pressures up to 350 psig (24.1 barg)
 - STAINLESS STEEL Shell and Tube Construction
 - Removable Tube Bundle
- **ENERGY SAVING**
 - Requires no electricity or steam
 - Uses circulating water in need of cooling to vaporize liquid CO₂
 - Reduces cooling tower load
- **FULLY AUTOMATIC OPERATION AND CONTROLS**
 - Water Flow Switch
 - Shut-off Valve
 - Vapor CO₂ Temperature Switch
 - Vapor CO₂ Pressure Switch
 - Safety Valve
- **PREVENTS FREEZE-UP**
 - Liquid CO₂ flow shut-off and operator alarm sounded when water flow is interrupted or CO₂ gas temperature or pressure drop below the preset limit
- **MINIMIZES INSTALLATION COSTS**
 - Unit comes with all necessary controls and valves
- **MINIMIZES MAINTENANCE**
 - No electrical heating element
 - No moving parts



WHV082007



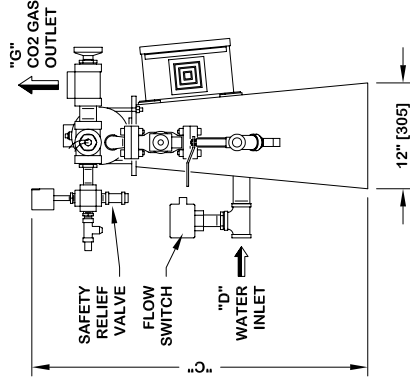
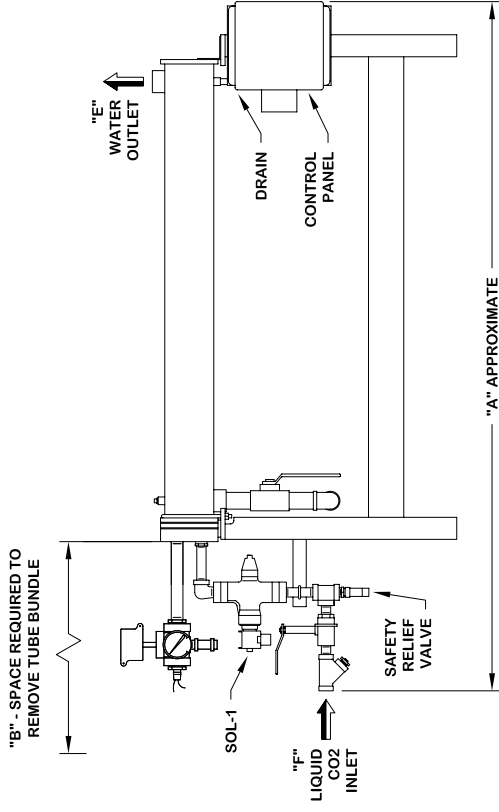
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CONTROL PANEL

- On/off switch
- Vaporizer operating indicator light
- Water flow interruption operator alarm
- CO₂ vapor pressure drop or temperature drop operator alarm

VALUABLE OPTIONAL

- water pump and starter with control relay for remote operation
- automatic liquid CO₂ bypass to stand-by vaporizer in case of loss of water flow or CO₂ outlet temperature drop below preset limit



Vaporizer Model	Capacity		A		B		C		D		E		F		G	
	lb/hr	kg/hr	ft	mm	ft	mm	ft	mm	in	mm	in	mm	in	mm	in	mm
WHV-250	250	114	4'-1 1/16"	1246	2'-0"	610	3'-0 9/16"	929	1"	25	1"	25	3/4"	19	1-1/4"	32
WHV-500	500	228	6'-4 7/16"	1942	4'-0"	1219	2'-9 5/8"	854	1"	25	1"	25	3/4"	19	1-1/4"	32
WHV-1000	1000	455	6'-9 9/16"	2071	4'-6"	1372	3'-1 1/4"	946	1-1/2"	38	1-1/2"	38	3/4"	19	1-1/2"	38
WHV-2000	2000	910	6'-6 1/8"	1984	4'-0"	1219	2'-10 1/2"	876	1-1/2"	38	1-1/2"	38	3/4"	19	1-1/2"	38
WHV-3000	3000	1364	6'-8 5/16"	2040	4'-0"	1219	3'-1 9/16"	954	2"	51	2"	51	1"	25	2"	51
WHV-4000	4000	1818	6'-0 1/2"	1842	3'-0"	914	3'-5"	1041	3"	76	3"	76	1"	25	2"	51
WHV-5000	5000	2273	6'-9 5/16"	2065	4'-0"	1219	3'-5"	1041	3"	76	3"	76	1"	25	2"	51
WHV-6000	6000	2728	7'-3 5/16"	2217	4'-6"	1372	3'-5"	1041	3"	76	3"	76	1"	25	2"	51

Note

Water Inlet / Outlet Connections for WHV-250 through WHV-2000 are NPT Connections.
 Water Inlet / Outlet Connections for WHV-3000 through WHV-6000 are 150# RF Flanged Connections.