



AMBIENT AND ELECTRIC VAPORIZERS AND PRESSURE BUILDERS FOR CARBON DIOXIDE

FinnCo's wide range of vaporizer solutions is deployed across multiple industries.

FinnCo, the subsidiary of FIBA Technologies Inc., engineers and manufactures a full line of ambient and electric vaporizers for low pressure, high pressure, and pressure building applications.

The full range is customizable and is increasingly used in a huge range of sectors, from beverage and gas distribution to food packaging and medical industries.

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SUPERFIN CO2 AMBIENT VAPORIZERS

FinnCo SuperFinn ambient vaporizers deliver a great number of advantages and benefits:

- Maximum surface area for high boiling Carbon Dioxide
- Wide gap design for superior air flow and run length
- Standard design to 700 psig
- Low height models available for indoor applications
- Standard NPT, tongue and groove, and ANSI connections

AMBIENT CO2 VAPORIZER FLOW RATES AND SPECIFICATIONS

Number Model	8 hr Rating, Lbs/hr (1)	Inlet/Outlet Connection	MAWP (psig)	Weight (lbs)	Dimension
VSF-0.8-700-04	80	1" MNPT	700	180	1'10" X 1'10" X 7'8"
VSF-1.6-700-04	160	1" MNPT	700	330	3'9" X 2'10" X 7'8"
VSF-2.4-700-04	240	1" MNPT	700	460	3'9" X 2'10" X 10'3"
VSF-4.2-700-04	420	1" MNPT	700	810	3'9" X 3'9" X 12'8"
VSF-5.2-700-04	520	1" MNPT	700	1,000	5'4" X 4'4" X 12'8"
VSF-6.3-700-04	630	1" MNPT	700	1,230	6'0" X 4'0" X 12'8"
VSF-12-700-06	1,200	1-1/2" T&G Flange	700	2,200	6'0" X 5'4" X 17'6"
VSF-14-700-06	1,400	1-1/2" T&G Flange	700	2,620	6'0" X 6'0" X 17'6"
VSF-19-700-06	1,900	1-1/2" T&G Flange	700	3,580	8'0" X 6'0" X 17'6"
VSF-34-700-07	3,400	2" T&G Flange	700	6,190	8'4" X 8'0" X 23'6"
VSF-38-700-07	3,800	2" T&G Flange	700	6,950	9'3" X 8'0" X 23'6"

(1) Sat'd + 30F superheat; 300 psig; 50°F ambient

HOW TO SELECT YOUR IDEAL AMBIENT CO2 VAPORIZER

	CO2 Inlet Pressure											
	165 psig				200 psig				250 psig			
Ambient Temp	50 lbs/hr	100 lbs/hr	150 lbs/hr	200 lbs/hr	50 lbs/hr	100 lbs/hr	150 lbs/hr	200 lbs/hr	50 lbs/hr	100 lbs/hr	150 lbs/hr	200 lbs/hr
40°F	VSF-0.8	VSF-1.6	VSF-2.4	VSF-2.4	VSF-0.8	VSF-1.6	VSF-2.4	VSF-4.2	VSF-0.8	VSF-1.6	VSF-2.4	VSF-4.2
50°F	VSF-0.8	VSF-0.8	VSF-1.6	VSF-1.6	VSF-0.8	VSF-0.8	VSF-1.6	VSF-1.6	VSF-0.8	VSF-1.6	VSF-1.6	VSF-2.4
60°F	VSF-0.8	VSF-0.8	VSF-0.8	VSF-1.6	VSF-0.8	VSF-0.8	VSF-1.6	VSF-1.6	VSF-0.8	VSF-0.8	VSF-1.6	VSF-1.6
70°F	VSF-0.8	VSF-0.8	VSF-0.8	VSF-1.6	VSF-0.8	VSF-0.8	VSF-0.8	VSF-1.6	VSF-0.8	VSF-0.8	VSF-0.8	VSF-1.6
80°F	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8	VSF-1.6
90°F	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8
	275 psig				300 psig				350 psig			
	50 lbs/hr	100 lbs/hr	150 lbs/hr	200 lbs/hr	50 lbs/hr	100 lbs/hr	150 lbs/hr	200 lbs/hr	50 lbs/hr	100 lbs/hr	150 lbs/hr	200 lbs/hr
40°F	VSF-1.6	VSF-2.4	VSF-4.2	VSF-4.2	VSF-1.6	VSF-2.4	VSF-4.2	VSF-4.2	-	-	-	-
50°F	VSF-0.8	VSF-1.6	VSF-1.6	VSF-2.4	VSF-0.8	VSF-1.6	VSF-1.6	VSF-2.4	VSF-0.8	VSF-1.6	VSF-2.4	VSF-2.4
60°F	VSF-0.8	VSF-0.8	VSF-1.6	VSF-1.6	VSF-0.8	VSF-0.8	VSF-1.6	VSF-1.6	VSF-0.8	VSF-0.8	VSF-1.6	VSF-1.6
70°F	VSF-0.8	VSF-0.8	VSF-0.8	VSF-1.6	VSF-0.8	VSF-0.8	VSF-0.8	VSF-1.6	VSF-0.8	VSF-0.8	VSF-1.6	VSF-1.6
80°F	VSF-0.8	VSF-0.8	VSF-0.8	VSF-1.6	VSF-0.8	VSF-0.8	VSF-0.8	VSF-1.6	VSF-0.8	VSF-0.8	VSF-0.8	VSF-1.6
90°F	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8	VSF-0.8

Consult FinnCo for larger flow rates.

FINNSTACK ELECTRIC VAPORIZERS

FinnStack modular electric vaporizers utilize stackable aluminum heat transfer plates between cast-in heating elements providing excellent heat transfer and a configurable modular design. The cryogenic electric vaporizers are available as direct to process, gas trim heaters, pressure builders, and as combination vaporizer/pressure builders.

Standard Features

- On/off outlet temperature control with Indication
- 24Vdc controls for safety
- NEMA 4 UL cabinet
- Dual High block temperature warning and shut down
- Replaceable heaters
- ASME built to 400 psig
- Forklift portable base

Options

- Triple tier cascade PLC heater control
- Low outlet temperature shut off including indicating controls
- Pressure build control including pressure switch and shut off valve
- MAWP to 3000 psig
- Separate 24Vdc control cabinet
- Configurable for custom voltages, flowrates, and pressure drops

Standard Direct To Process Vaporize 300 psig CO₂; 70°F outlet

Model	kW*	Flowrate* CO ₂ , lbs/hr	Amp Draw* 480V, 3p	Weight, lbs	Connections, FNPT
FE - 12	12	280	14	120	3/4"
FE - 24	24	550	29	200	3/4"
FE - 48	48	1,100	58	330	1"
FE - 60	60	1,400	72	400	1"
FE - 72	72	1,700	87	450	1"
FE - 96	96	2,200	116	600	1"
FE - 120	120	2,800	145	720	1"
FE - 144	144	3,300	173	900	1"
FE - 192	192	4,400	231	1200	1-1/2"

Standard Pressure Builder 300 psig CO₂

Model	kW*	Flowrate* CO ₂ , lbs/hr	Amp Draw* 480V, 3p	Weight, lbs	Connections, FNPT
FEPB - 12	12	340	14	120	1"
FEPB - 24	24	680	29	200	1"

Standard Dual Direct To Process Vaporizer/Pressure Builder 300 psig CO₂

Model	kW*	Flowrate* CO ₂ , lbs/hr	Amp Draw* 480V, 3p	Weight, lbs	Connections, FNPT
FED - 12	12	250	14	120	3/4"
FED - 24	24	500	29	200	3/4"

* Nominal rates shown; Industry heater tolerance is +5/-10%

THERMOSYPHON ELECTRIC PRESSURE BUILDERS

The FinnCo fully-automated thermosyphon electric pressure builder is built to ASME B31.3 and is used to maintain pressure in a tank while withdrawing liquid CO₂.

The vaporizer has both an adjustable pressure switch and a level switch, as well as a backup high temperature sensing circuit to shut down the heater if an overtemperature is detected.

Standard Features

- Built to ASME B31.3, MAWP = 400 psig
- NEMA 4 cabinet
- UL immersion heater with incoloy elements and heavy duty NEMA 4 heater head
- Adjustable pressure switch, NEMA 4
- Level Switch, NEMA 4
- High Temperature shut-off circuit
- Insulated and ready to install

Options

- Electrically actuated shut off ball valve on inlet
- Can be tank mounted

Thermosyphon Electric Pressure Builders 300 psig CO₂

Model	kW*	Nominal Capacity CO ₂ , lbs/hr	Tank Liquid Withdrawal CO ₂ , lbs/hr	Amp Draw*		Connection, FNPT	
				240V, 1/3p	480V, 3p	Inlet, FNPT	Outlet, FNPT
EPB - 6	6	170	2,900	25/14.5	7	1"	1-1/2"
EPB - 12	12	340	5,800	50/29	14	1"	1-1/2"
EPB - 18	18	510	8,700		22	1"	1-1/2"
EPB - 25	25	710	12,100		30	1"	1-1/2"
EPB - 50	50	1,420	24,200		60	1"	2"
EPB - 75	75	2,130	36,200		90	1-1/2"	2"

* Nominal rates shown; Industry heater tolerance is +5/-10%



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