

Direct Steam Vaporizers

FinnCo Direct Steam Vaporizers use steam as a heat source to vaporize and superheat cryogenic fluids providing a compact footprint and cost efficient design.

Outlet temperature controlled with PID controller and steam valve.

Manufactured to TEMA standards with ASME VIII stamped tube bundle and shell.



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Direct Steam Vaporizers are fully customizable and are provided as a complete system including :

- Steam train with strainer, condensate drip trap, control valve w/positioner, vacuum breaker, and pressure relief valve
- Outlet process temperature control with thermocouple and PID controller
- Condensate management with drain valve, strainer, F&T or inverted bucket steam trap

DIRECT STEAM VAPORIZERS

STANDARD DIRECT TO PROCESS VAPORIZER 150 psig N2, 300 psig CO2; 70°F outlet; 75 psig sat'd steam

Model	Flowrate		Steam,	Weight,	Approx	Connection Sizes, inches			
	N2, SCFH	CO2, lbs/hr	lbs/hr	lbs	Dimensions	Steam	Condensate	Process In	Process Out
FS-60K-6	61,000	5,000	810	500	11' x 1' 5'	1-1/2	1	1	2
FS-120K-8	123,000	10,000	1,620	700	11' x 1'-2" x 5'	2	1	1-1/2	3
FS-180K-10	184,000	15,000	2,440	900	11' x 1'-4" x 5'	2	1	1-1/2	4
FS-250K-10	245,000	20,000	3,250	1,000	11' x 1'-4" x 5'	3	1	2	4
FS-300K-12	306,000	25,000	4,060	1,300	11' x 1'-7" x 5'	1	1	2	6
FS-600K-14	613,000	50,000	8,120	1,900	15' x 1'-9" x 6'	4	1-1/2	3	6
FS-900K-16	919,000	75,000	12,190	2,500	15' x 2' x 6'	4	1-1/2	4	8
FS-1200K-18	1,225,000	100,000	16,250	2,900	15' x 2'-1" x 6'	6	2	4	8

STANDARD TRIM HEATER 150 psig N2, 300 psig CO2; 100°F temp increase; 75 psig sat'd steam

Model	Flowrate		Steam,	Weight,	Approx	Connection Sizes, inches			
	N2, SCFH	CO2, lbs/hr	lbs/hr	lbs	Dimensions	Steam	Condensate	Process In	Process Out
FST-80K-6	80,000	5,600	160	500	9' x 1' x 5'	1	1	3	3
FST-200K-8	200,000	14,000	410	600	9' x 1'-1" x 5'	1	1	4	4
FST-300K-10	300,000	21,100	620	800	9' x 1'-4" x 5'	1-1/2	1	6	6
FST-500K-12	500,000	35,100	1,030	1100	9' x 1'7" x 5'	2	1	6	6

SPECIFICATIONS

- Cryogenic SS tube bundle rated at 250 psig
 @-320/+350°F; TEMA compliant
- Carbon steel shell rated at 100 psig
 @-20/+350°F
- Shell and tube bundle to be ASME Sec VIII stamped
- Insulated shell with aluminium jacket

OPTIONS

- Customized for various steam pressures and process conditions
- Low outlet temperature shut off
- Spare tube bundles
- Control tie-ins to plant DCS
- Block and bypass around control valve
- Pressure building circuit





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