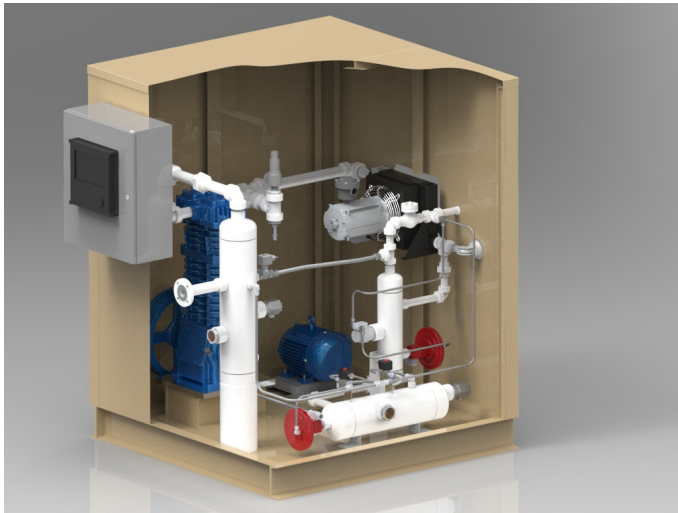
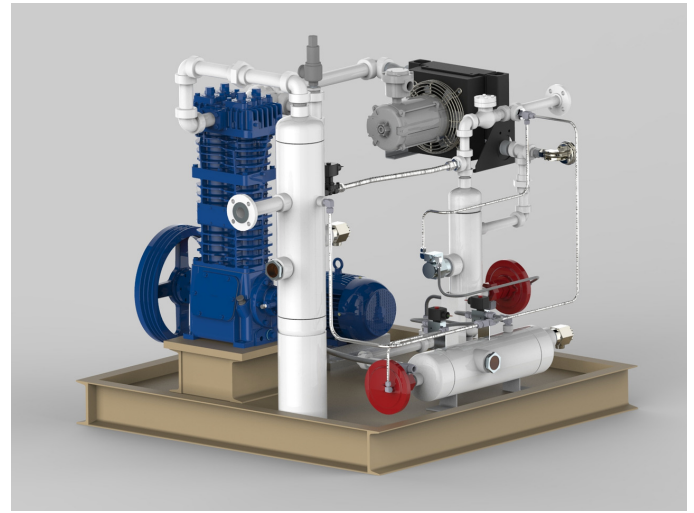


WHEN DEPENDABLE PERFORMANCE IS CRITICAL

BVR-MODULAR SERIES VAPOR RECOVERY UNITS APPLICATION DATA



Standard unit is constructed with weather/sound enclosure



Component illustration without weather/sound enclosure

The TESCORN BVR-M “VentMaster” Series Vapor Recovery Unit is a compact, 1- and 2-stage fully automatic compressor unit system designed and constructed to meet the demanding requirements, harsh environment, and variable performance necessary for low volume vapor emissions requirements.

Designed for both the applications of “Stock Tank Vapor Recovery” and separator “Flash Gas” applications, the TESCORN BVR-M series units are compact and self-contained units designed for ease of shipment, installation, and operation.

Prices Available Upon Request

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WHEN DEPENDABLE PERFORMANCE IS CRITICAL

BVR-MODULAR SERIES VAPOR RECOVERY UNITS APPLICATION DATA

STOCK TANK "VAPOR RECOVERY" APPLICATION:

"BVR-M (1 & 2) STOCK TANK VAPOR RECOVERY APPLICATION GRAPH

		Atmospheric Inlet Pressure										
Inlet Pressure	Discharge Pressure	45 PSIA	55 PSIA	65 PSIA	75 PSIA	100 PSIA	125 PSIA	150 PSIA	175 PSIA	200 PSIA	225 PSIA	250 PSIA
Altitude	CAPACITY (MSCFD)/HORSE POWER											
P1=12.5 PSIA EL=4500'	BVR-162	13.7/2.2	12.8/2.4									
	BVR-362	29.2/4.4	27.5/4.8									
	BVR-602	47.0/7.9	42.5/8.3									
	BVR-172	6.9/1.6	6.8/1.7	6.6/1.8	6.6/5.8	6.5/1.9	6.2/2.0	6.0/2.1	5.9/2.2			
	BVR-372	20.0/3.6	19.7/3.9	19.6/4.1	19.4/4.3	19.0/4.6	18.6/4.9	18.3/5.2	17.9/5.4			
	BVR-612	43.5/7.7	43.1/8.2	42.6/8.6	42.2/9.0	41.2/9.8	40.3/10.4	39.5/10.9	38.7/11.3			
P1=13.5 PSIA EL=2500'	BVR-162	15.0/2.3	14.3/2.4									
	BVR-362	32.1/4.5	30.5/4.9									
	BVR-602	52.3/8.1	47.8/8.5									
	BVR-172	7.5/1.1	7.3/1.7	7.2/1.9	7.2/2.0	7.1/2.0	6.8/2.1	6.6/2.2	6.5/2.2			
	BVR-372	21.6/3.7	21.5/3.9	21.3/4.2	21.0/4.3	20.6/4.7	20.3/5.0	19.9/5.3	19.6/5.5			
	BVR-612	47.1/7.8	46.7/8.3	46.2/8.8	45.8/9.2	44.8/10.0	43.9/10.7	43.1/11.2	42.2/11.7			
P1=14.5 PSIA EL=500'	BVR-162	16.4/2.3	15.6/2.5									
	BVR-362	35.1/4.5	33.4/4.9									
	BVR-602	57.7/8.3	53.1/8.7									
	BVR-172	8.1/1.7	7.9/1.8	7.9/1.8	7.8/1.9	7.6/2.0	7.3/2.1	7.2/2.2	7.1/2.3			
	BVR-372	21.6/3.7	21.5/3.9	21.3/4.2	21.0/4.3	22.3/4.8	21.9/5.2	21.5/5.5	21.2/5.7			
	BVR-612	50.7/7.9	50.3/8.5	49.8/8.9	49.4/9.4	43.4/10.3	47.5/11.0	46.7/11.6	45.8/12.1			
P1=14.7 PSIA Sea Level	BVR-162	16.7/2.3	15.8/2.5	15.1/2.6	14.3/2.7							
	BVR-362	35.7/4.6	34.0/5.0	32.3/5.3								
	BVR-602	58.8/8.2	54.3/8.7	49.8/9.1								
	BVR-172	8.2/1.7	8.1/1.8	7.9/1.8	7.9/1.9	7.6/2.0	7.5/2.1	7.3/2.2	7.2/2.3	7.1/2.4	6.9/2.4	6.8/2.5
	BVR-372	23.6/3.7	23.5/4.0	23.3/4.2	23.0/4.4	22.6/4.9	22.2/5.2	21.9/5.5	21.5/5.7	21.2/5.9		
	BVR-612	51.4/7.9	51.0/8.5	50.5/9.0	50.1/9.4	49.1/10.3	48.2/11.0	47.4/11.6	46.5/12.1	45.6/12.6		

Prices available upon request

WHEN DEPENDABLE PERFORMANCE IS CRITICAL

SEPARATOR "FLASH GAS" RECOVERY APPLICATION

		BVR-M (1 & 2) GAS BOOSTER APPLICATION GRAPH										
		Applications for elevated inlet pressures										
		Discharge Pressure	50 PSIA	75 PSIA	100 PSIA	125 PSIA	150 PSIA	175 PSIA	200 PSIA	225 PSIA	250 PSIA	275 PSIA
Inlet Pressure		CAPACITY (MSCFD)/HORSE POWER										
P1=25 PSIA	BVR-162-5	30.6/2.6	28.4/3.2	26.2/3.7	24.2/4.0	NA	NA	NA	NA	NA	NA	NA
	BVR-362-10	65.4/4.8	60.7/6.3	56.3/7.3	52.0/8.0	NA	NA	NA	NA	NA	NA	NA
	BVR-602-15	112.2/9.0	100.1/11.2	88.6/12.5	77.6/13.1	NA	NA	NA	NA	NA	NA	NA
	BVR-942-30	219.2/14.1	198.3/18.6	178.6/21.3	159.6/23.0	NA	NA	NA	NA	NA	NA	NA
	BVR-172-5	NA	NA	13.5/2.4	13.3/2.5	13.1/2.7	12.9/2.8	12.7/2.9	12.5/3.0	12.3/3.1	12.4/3.2	
	BVR-372-10	NA	NA	39.5/5.6	39.0/6.1	38.5/6.6	38.0/7.0	37.5/7.3	37.1/7.6	36.6/7.9	37.2/8.2	
	BVR-612-20	NA	NA	85.9/12.0	84.7/13.2	83.6/14.1	82.5/14.9	81.5/15.7	80.5/16.3	79.5/16.9	80.5/17.4	
P1=35 PSIA	BVR-162-5	44.7/2.4	42.3/3.3	40.0/4.0	37.8/4.5	35.7/4.9	NA	NA	NA	NA	NA	NA
	BVR-362-10	95.5/4.2	90.4/6.3	85.7/7.8	81.1/8.9	76.6/9.8	NA	NA	NA	NA	NA	NA
	BVR-602-20	167.5/8.1	154.4/11.6	142.0/13.8	130/15.3	118.7/16.3	NA	NA	NA	NA	NA	NA
	BVR-942-30	324.5/12.1	302.0/19.1	280.8/23.7	260.4/26.9	240.7/29.1	NA	NA	NA	NA	NA	NA
	BVR-172-5	NA	NA	NA	19.0/2.8	18.8/3.0	18.5/3.2	18.3/3.3	18.1/3.4	17.9/3.6	18.1/3.7	
	BVR-372-10	NA	NA	NA	55.4/6.7	54.9/7.3	54.3/7.8	53.8/8.3	53.3/8.7	52.8/9.0	53.7/9.4	
	BVR-612-20	NA	NA	NA	120.5/14.4	119.2/15.7	118.0/16.8	116.9/17.8	115.7/18.7	114.6/19.5	115.7/19.4	
P1=45 PSIA	BVR-162-5	59.0/1.9	56.4/3.2	54.0/4.1	51.7/4.8	49.4/5.3	47.2/5.7	45.1/6.0	NA	NA	NA	NA
	BVR-362-10	125.8/3.1	120.5/5.9	115.5/7.8	110.6/9.3	105.9/10.5	101.3/11.4	96.8/12.2	NA	NA	NA	NA
	BVR-602-20	223.3/6.3	209.5/11.0	196.4/14.1	183.9/16.4	171.8/18.0	160.0/19.2	148.5/20.0	NA	NA	NA	NA
	BVR-942-30&40	431.0/8.7	407.2/17.8	384.8/24.1	363.3/28.7	342.4/32.1	322.1/34.7	302.3/36.7	NA	NA	NA	NA
	BVR-172-5	NA	NA	NA	NA	24.5/3.2	24.3/3.4	24.0/3.6	23.8/3.8	23.5/3.9	23.9/4.1	
	BVR-372-10	NA	NA	NA	NA	71.4/7.7	70.7/8.4	70.2/8.9	69.6/9.4	69.0/9.9	70.4/10.4	
	BVR-612-25	NA	NA	NA	NA	155.1/16.8	153.7/18.2	152.5/19.4	151.2/20.5	150.0/21.5	152.7/22.4	
P1=55 PSIA	BVR-162-7.5	NA	70.6/2.9	68.1/4.0	65.7/4.9	63.3/5.5	61.0/6.1	58.8/6.5	56.6/6.9	54.4/7.2	53.9/7.4	
	BVR-362-15	NA	150.8/5.1	145.5/7.5	140.5/9.3	135.5/10.8	130.7/12.0	126.0/13.0	121.4/13.9	116.8/14.6	115.8/15.1	
	BVR-602-25	NA	265.2/9.7	251.5/13.7	238.4/16.7	225.8/18.9	213.5/20.7	201.5/22.0	189.7/23.0	178.1/23.7	171.8/24.1	
	BVR-942-30,40,50	NA	513.4/15.3	490.0/23.2	467.5/29.1	445.7/33.7	424.5/37.3	403.8/40.2	383.5/42.5	363.5/44.3	354.4/45.3	
	BVR-172-5	NA	NA	NA	NA	NA	30.0/3.6	29.7/3.8	29.5/4.0	29.2/4.2	29.7/4.4	
	BVR-372-15	NA	NA	NA	NA	NA	87.3/8.7	86.6/9.4	86.0/10.0	85.4/10.6	87.1/11.1	
	BVR-612-25	NA	NA	NA	NA	NA	189.6/19.2	188.2/20.6	186.9/21.9	185.6/23.1	189.1/24.2	
P1=65 PSIA	BVR-162-7.5	NA	85.0/2.5	82.4/3.8	79.8/4.8	77.4/5.6	75.0/6.3	72.7/6.8	70.4/7.3	68.1/7.7	67.9/8.0	
	BVR-362-15	NA	181.3/4.0	175.8/6.8	170.6/9.0	165.5/10.8	160.5/12.3	155.6/13.5	150.8/14.6	146.1/15.5	145.8/16.2	
	BVR-602-25	NA	321.3/7.9	307.2/12.7	293.6/16.4	280.5/19.2	267.7/21.5	255.2/23.3	243.0/24.7	231.0/25.9	225.9/26.6	
	BVR-942-30,40,50	NA	620.5/11.7	596.1/21.1	572.8/28.4	550.2/34.1	528.2/38.7	506.7/42.4	485.6/45.5	464.8/48.1	458.2/49.8	
	BVR-172-5	NA	NA	NA	NA	NA	NA	35.5/4.0	35.2/4.2	34.9/4.4	35.6/4.6	
	BVR-372-15	NA	NA	NA	NA	NA	NA	103.2/9.8	102.5/10.5	101.9/11.1	104.0/11.7	
	BVR-612-25	NA	NA	NA	NA	NA	NA	224.2/21.5	222.8/23.0	221.4/24.4	225.7/25.6	
P1=75 PSIA	BVR-162-10	NA	NA	96.7/3.4	94.1/4.6	91.6/5.6	89.1/6.4	86.7/7.0	84.3/7.6	82.0/8.1	82.2/8.5	
	BVR-362-15	NA	NA	206.4/5.9	200.9/8.4	195.6/10.5	190.5/12.3	185.4/13.8	180.5/15.0	175.6/16.1	171.0/17.2	
	BVR-602-30	NA	NA	363.3/11.3	349.2/15.6	335.7/19.0	322.5/21.7	309.6/24.0	297.0/25.9	284.6/27.4	262.5/26.7	
	BVR-942-30,40,50	NA	NA	703.1/18.3	679.0/26.7	655.6/33.5	632.9/39.0	610.7/43.6	588.9/47.5	567.5/50.7	563.5/53.1	
	BVR-172-5	NA	NA	NA	NA	NA	NA	NA	NA	40.7/4.6	41.5/4.8	
	BVR-372-15	NA	NA	NA	NA	NA	NA	NA	NA	118.4/11.5	121.0/12.2	
	BVR-612-25	NA	NA	NA	NA	NA	NA	NA	NA	257.3/25.4	262.5/26.7	
P1=85 PSIA	BVR-162-10	NA	NA	111.1/3.0	108.4/4.3	105.8/5.4	103.3/6.3	100.8/7.1	98.4/7.8	96.0/8.4	96.6/8.8	
	BVR-362-15	NA	NA	237.0/4.8	231.4/7.7	226.0/10.0	220.7/12.0	215.5/13.7	210.4/15.2	205.4/16.5	206.8/17.5	
	BVR-602-30	NA	NA	419.7/9.5	405.3/14.4	391.4/18.4	377.8/21.6	364.5/24.3	351.5/26.5	338.8/28.4	336.5/29.8	
	BVR-942-30,40,50	NA	NA	810.7/14.7	545.8/24.3	761.9/32.1	738.5/38.5	715.6/44.0	693.2/48.6	671.2/52.5	670.55	
	BVR-172-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	BVR-372-15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	BVR-612-25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
P1=95 PSIA	BVR-162-10	NA	NA	125.6/2.5	122.8/4.0	120.2/5.2	117.6/6.2	115.0/7.1	112.5/7.8	110.1/8.5	111.0/9.0	
	BVR-362-15	NA	NA	267.9/3.6	262.1/6.7	256.6/9.4	251.1/11.6	245.8/13.5	240.6/15.2	235.4/16.7	237.7/17.9	
	BVR-602-30	NA	NA	476.5/7.3	461.8/12.9	447.4/17.3	433.5/21.0	419.9/24.2	406.6/26.8	393.5/29.0	392.7/30.7	
	BVR-942-30,40,50	NA	NA	918.9/10.5	893.5/21.3	868.9/30.1	844.9/37.4	821.4/43.6	798.5/48.9	775.9/53.5	777.5/57.0	
	BVR-172-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	BVR-372-15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	BVR-612-25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Prices available upon request

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OPTIONAL ADDITIONS:

1. VFD/Motor controls (N1)

10 Hp: (shipped loose for installation outside of hazardous area)

- VFD/Accessory starters motor control panel:
- Rated for full horsepower, 3-Phase, 460 Vac. with:
- 10HP,460 Volt, Combination VFD Panel to Include Main Breaker w/Operator, Input Line Reactor, 10HP Fuji Mega Series Drive, Enclosure Cooling, Keypad on the door w/Cover, Speed Pot, H.O.A Switch, Thermostat for Heating and Cooling
- (1) 1Hp Cooler Motor Starter
- Outdoor rated Enclosure

20 Hp: (shipped loose for installation outside of hazardous area)

- VFD/Accessory starters motor control panel:
- Rated for full horsepower, 3-Phase, 460 Vac. with:
- 20HP,460 Volt, Combination VFD Panel to Include Main Breaker w/Operator, Input Line Reactor, 10HP Fuji Mega Series Drive, Enclosure Cooling, Keypad on the door w/Cover, Speed Pot, H.O.A Switch, Thermostat for Heating and Cooling
- (1) 1Hp Cooler Motor Starter
- Outdoor rated enclosure

30 Hp: (shipped loose for installation outside of hazardous area)

- VFD/Accessory starters motor control panel:
- Rated for full horsepower, 3-Phase, 460 Vac. with:
- 30HP,460 Volt, Combination VFD Panel to Include Main Breaker w/Operator, Input Line Reactor, 10HP Fuji Mega Series Drive, Enclosure Cooling, Keypad on the door w/Cover, Speed Pot, H.O.A Switch, Thermostat for Heating and Cooling
- (1) 1Hp Cooler Motor Starter
- Outdoor rated enclosure

2. Cold environment heat trace (N2)

Note 2: Artic heat trace and insulation is provided on the condensate blowcase, piping and valves with:

- 120 Vac, 1-phase thermostat
- Heat trace tape
- Silicate insulation and aluminum covering
- Thermostatic fan control

Customer to supply 120 Vac, 1-phase power if not purchased with starters.

3. Proportional bypass (N3)

Note 3: Proportional gas recycle valve for continuous flow control with:

- Control logic w/ I2P
- Pneumatic 3-15 psi top works
- 4-20mA valve positioner with logic

Prices available upon request