Bitzer®
Semi-hermetic
Compressor Rack System





Nomenclature:

BBF3-30MY

B : **Series Code**

B : **Compressor Type**
B: Bitzer Semi-hermetic

F : **Cooling Type**
F: Air Cooled or Evaporative

3 : **Quantity of the Compressors**

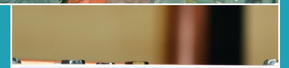
30 : **Total Nominal Capacity (HP)**

M : **Temperature**
M: 5 ~ -5°C , L: -15 ~ -30°C

Y : **Refrigerant**
Y: R404A / R448A / R449A

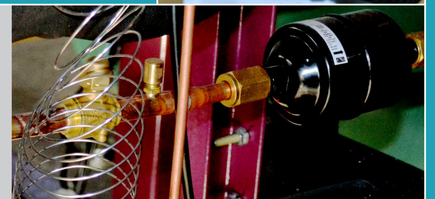
Product Description:

- ★ Semi-Hermetic Bitzer ECOLINE compressors rack;
- ★ Huge cooling capacity;
- ★ Multi stage energy adjustment available;
- ★ Compact design for easy installation;
- ★ All-around protection for each compressor come from the precise electrical control.









2 Compressors Rack For Middle & High Temperature

Model		BBF2-18MY	BBF2-24MY	BBF2-28MY	BBF2-36MY	BBF2-46MY	BBF2-56MY	BBF2-68MY	BBF2-88MY
Temperature (°C)		-5°C ~ +5°C							
Refrigerant		R404A / R448A / R449A							
Power Supply		380V/50Hz							
Compressor	Type	Semi-hermetic							
	Model	4TES-9Y	4PES-12Y	4NES-14Y	4HE-18Y	4GE-23Y	4FE-28Y	6GE-34Y	6FE-44Y
	Quantity	2	2	2	2	2	2	2	2
Capacity & Input	Eavp -5°C Capacity (KW)	48400	55200	65800	88400	102000	120400	150400	180600
	Eavp -5°C Input (KW)	20.36	22.58	27.26	36.78	44.0	51.6	65.4	77.8
	Eavp -10°C Capacity (KW)	38320	43600	52200	70800	82200	97200	121600	145800
	Eavp -10°C Input (KW)	18.56	20.54	24.96	33.78	40.2	47	60.2	72.0
	Eavp -15°C Capacity (KW)	29920	33700	40600	56000	65200	77600	97200	116400
	Eavp -15°C Input (KW)	16.64	18.34	22.46	30.6	36.42	43.4	54.8	65.8
Pipe	Suction Pipe (mm)	ϕ42	ϕ54	ϕ54	ϕ67	ϕ67	ϕ76	ϕ76	ϕ76
	Liquid Pipe (mm)	ϕ22	ϕ22	ϕ28	ϕ28	ϕ28	ϕ35	ϕ35	ϕ35
	Discharge Pipe (mm)	ϕ35	ϕ35	ϕ35	ϕ42	ϕ42	ϕ54	ϕ54	ϕ54
	Liquid in Pipe (mm)	ϕ28	ϕ28	ϕ28	ϕ35	ϕ35	ϕ42	ϕ42	ϕ42
Overall Dimension	L (mm)	1950	2100	2100	2200	2200	2400	2400	2400
	W (mm)	1120	1120	1120	1120	1120	1120	1120	1120
	H (mm)	1700	1700	1700	1700	1700	1700	1700	1700

Remarks: 1.Ambient Temp. 32°C , condensing temp.45°C .

3 Compressors Rack For Middle & High Temperature

Model		BBF3-27MY	BBF3-36MY	BBF3-42MY	BBF3-54MY	BBF3-69MY	BBF3-84MY	BBF3-102MY	BBF3-132MY
Temperature (°C)		-5°C ~ +5°C							
Refrigerant		R404A / R448A / R449A							
Power Supply		380V/50Hz							
Compressor	Type	Semi-hermetic							
	Model	4TES-9Y	4PES-12Y	4NES-14Y	4HE-18Y	4GE-23Y	4FE-28Y	6GE-34Y	6FE-44Y
	Quantity	3	3	3	3	3	3	3	3
Capacity & Input	Eavp -5°C Capacity (KW)	72100	82900	98100	132600	152600	180000	221000	270200
	Eavp -5°C Input (KW)	30.5	33.9	40.9	55.2	66.0	78.0	98.1	116.7
	Eavp -10°C Capacity (KW)	57300	65400	78900	107300	123000	146300	181400	219200
	Eavp -10°C Input (KW)	27.8	30.8	37.4	50.7	60.3	72.0	90.3	108.0
	Eavp -15°C Capacity (KW)	44270	50400	60700	85300	96300	113600	142500	174780
	Eavp -15°C Input (KW)	25.0	27.5	33.7	45.9	54.6	65.8	82.2	98.7
Pipe	Suction Pipe (mm)	ϕ54	ϕ67	ϕ67	ϕ76	ϕ76	ϕ108	ϕ108	ϕ108
	Liquid Pipe (mm)	ϕ22	ϕ28	ϕ28	ϕ35	ϕ35	ϕ42	ϕ42	ϕ42
	Discharge Pipe (mm)	ϕ35	ϕ42	ϕ42	ϕ54	ϕ54	ϕ67	ϕ67	ϕ67
	Liquid in Pipe (mm)	ϕ28	ϕ35	ϕ35	ϕ42	ϕ42	ϕ54	ϕ54	ϕ54
Overall Dimension	L (mm)	2750	2750	2750	2850	2850	3150	3150	3200
	W (mm)	1120	1120	1120	1120	1120	1120	1120	1120
	H (mm)	1700	1700	1700	1850	1850	1850	1850	1850

Remarks: 1. All the above data calculated base on the condensing temperature 45°C .

4 Compressors Rack For Middle & High Temperature

Model			BBF4-36MY	BBF4-48MY	BBF4-56MY	BBF4-72MY	BBF4-92MY	BBF4-112MY	BBF4-136MY	BBF4-176MY
Temperature (℃)			-5℃ ~ +5℃							
Refrigerant			R404A / R448A / R449A							
Power Supply			380V/50Hz							
Compressor		Type	Simi-hermetic							
		Model	4TES-9Y	4PES-12Y	4NES-14Y	4HE-18Y	4GE-23Y	4FE-28Y	6GE-34Y	6FE-44Y
		Quantity	4	4	4	4	4	4	4	4
Capacity & Input	Eavp -5℃	Capacity (KW)	96800	113200	134800	180800	208800	259600	308000	369600
		Input (KW)	40.7	45.2	54.5	73.6	88.0	108.0	130.8	155.6
	Eavp -10℃	Capacity (KW)	76400	87200	104200	141400	164000	194400	243200	291600
		Input (KW)	37.1	41.1	49.9	67.6	80.4	99.6	120.4	144.0
	Eavp -15℃	Capacity (KW)	59360	67520	81600	110400	130400	154800	199200	230400
		Input (KW)	33.3	36.7	44.9	61.2	72.8	90.4	109.6	131.6
Pipe		Suction Pipe (mm)	ϕ54	Φ67	ϕ76	ϕ76	ϕ108	ϕ108	ϕ108	ϕ133
		Liquid Pipe (mm)	ϕ28	ϕ28	ϕ35	ϕ35	ϕ42	ϕ42	ϕ42	ϕ42
		Discharge Pipe (mm)	ϕ42	ϕ54	ϕ54	ϕ54	ϕ67	ϕ67	ϕ67	ϕ79
		Liquid in Pipe (mm)	ϕ35	ϕ35	ϕ42	ϕ42	ϕ54	ϕ54	ϕ54	ϕ54
Overall Dimension		L (mm)	3300	3300	3300	3500	3800	3800	3800	3800
		W (mm)	1120	1120	1120	1120	1120	1120	1120	1120
		H (mm)	1700	1700	1700	1850	1850	1850	1850	1850

Remarks: 1. All the above data calculated base on the condensing temperature 45℃ .

2 Compressors Rack For Middle & Low Temperature

Model			BBF2-18LY	BBF2-28LY	BBF2-36LY	BBF2-46LY	BBF2-56LY	BBF2-68LY	BBF2-88LY
Temperature (℃)			-15℃ ~ -30℃						
Refrigerant			R404A / R448A / R449A						
Power Supply			380V/50Hz						
Compressor		Type	Simi-hermetic						
		Model	4TES-9Y	4NES-14Y	4HE-18Y	4GE-23Y	4FE-28Y	6GE-34Y	6FE-44Y
		Quantity	2	2	2	2	2	2	2
Capacity & Input	Eavp -25℃	Capacity (KW)	17240	23400	33380	39340	47200	59400	70600
		Input (KW)	12.7	17.2	24.0	28.5	35.38	43.6	52.4
	Eavp -30℃	Capacity (KW)	12600	17100	24900	29640	35580	45200	53200
		Input (KW)	10.8	14.5	20.7	24.7	30.4	37.9	45.4
	Eavp -35℃	Capacity (KW)	8920	12060	18000	21740	25920	33360	38920
		Input (KW)	8.9	11.9	17.5	20.9	25.5	32.4	38.7
	Eavp -40℃	Capacity (KW)	6000	8120	12440	15380	18140	23820	27220
		Input (KW)	7.2	9.4	14.5	17.4	20.8	27.1	32.1
Pipe		Suction Pipe (mm)	ϕ54	ϕ54	ϕ54	ϕ67	ϕ67	ϕ76	ϕ76
		Liquid Pipe (mm)	ϕ22	ϕ22	ϕ22	ϕ22	ϕ28	ϕ28	ϕ28
		Discharge Pipe (mm)	ϕ35	ϕ35	ϕ35	ϕ42	ϕ42	ϕ54	ϕ54
		Liquid in Pipe (mm)	ϕ28	ϕ28	ϕ28	ϕ28	ϕ35	ϕ35	ϕ35
Overall Dimension		L (mm)	2100	2100	2100	2200	2400	2400	2400
		W (mm)	1120	1120	1120	1120	1120	1120	1120
		H (mm)	1700	1700	1700	1700	1700	1700	1700

Remarks: 1. All the above data calculated base on the condensing temperature 45℃ .

3 Compressors Rack For Middle & Low Temperature

Model			BBF3-27LY	BBF3-42BY	BBF3-54LY	BBF3-69LY	BBF3-84LY	BBF3-102LY	BBF3-132LY
Temperature (℃)			-15℃ ~ -30℃						
Refrigerant			R448A/R449A						
Power Supply			380V/50Hz						
Compressor		Type	Simi-hermetic						
		Model	4TES-9Y	4NES-14Y	4HE-18Y	4GE-23Y	4FE-28Y	6GE-34Y	6FE-44Y
		Quantity	3	3	3	3	3	3	3
Capacity & Input	Eavp -25℃	Capacity (KW)	25860	35100	50070	59000	70800	89100	105900
		Input (KW)	19.1	25.7	36.0	42.8	53.07	65.4	78.6
	Eavp -30℃	Capacity (KW)	18930	25650	37350	44460	53020	67800	79800
		Input (KW)	16.1	21.7	31.1	37.0	45.6	56.9	68.1
	Eavp -35℃	Capacity (KW)	13380	18090	27000	32610	38780	50000	58380
		Input (KW)	13.4	17.8	26.3	31.4	38.25	48.6	58.1
	Eavp -40℃	Capacity (KW)	9000	12180	18660	23070	27210	35700	40830
		Input (KW)	10.8	14.2	21.7	26.1	31.2	40.7	48.2
Pipe		Suction Pipe (mm)	ϕ54	ϕ54	ϕ67	ϕ76	ϕ76	ϕ108	ϕ108
		Liquid Pipe (mm)	ϕ22	ϕ22	ϕ28	ϕ28	ϕ28	ϕ35	ϕ35
		Discharge Pipe (mm)	ϕ42	ϕ42	ϕ42	ϕ42	ϕ54	ϕ54	Φ67
		Liquid in Pipe (mm)	ϕ28	ϕ28	ϕ35	ϕ35	ϕ35	ϕ42	ϕ42
Overall Dimension		L (mm)	2750	2750	2750	2850	3150	3150	3150
		W (mm)	1120	1120	1120	1120	1120	1120	1120
		H (mm)	1700	1700	1700	1700	1850	1850	1850

Remarks: 1. All the above data calculated base on the condensing temperature 45℃ .

4 Compressors Rack For Middle & Low Temperature

Model			BBF4-36LY	BBF4-56LY	BBF4-72LY	BBF4-92LY	BBF4-112LY	BBF4-136LY	BBF4-176LY
Temperature (℃)			-15℃ ~ -30℃						
Refrigerant			R404A / R448A / R449A						
Power Supply			380V/50Hz						
Compressor		Type	Simi-hermetic						
		Model	4TES-9Y	4NES-14Y	4HE-18Y	4GE-23Y	4FE-28Y	6GE-34Y	6FE-44Y
		Quantity	4	4	4	4	4	4	4
Capacity & Input	Eavp -25℃	Capacity (KW)	34480	46800	66760	78680	94400	118800	141200
		Input (KW)	25.4	34.3	48.0	57.1	70.76	87.2	104.8
	Eavp -30℃	Capacity (KW)	25240	34200	49800	59280	71360	90400	106400
		Input (KW)	21.5	29.0	41.4	49.3	60.8	75.8	90.8
	Eavp -35℃	Capacity (KW)	17840	24120	36000	43480	52040	66720	77840
		Input (KW)	17.8	23.8	35.0	41.8	51.0	64.8	77.4
	Eavp -40℃	Capacity (KW)	12000	16240	24880	30760	36280	47640	54440
		Input (KW)	14.4	18.9	28.9	34.8	41.6	54.2	64.3
Pipe		Suction Pipe (mm)	ϕ54	ϕ54	ϕ67	ϕ76	Φ108	ϕ108	ϕ108
		Liquid Pipe (mm)	ϕ22	ϕ22	ϕ28	ϕ28	Φ35	ϕ35	ϕ35
		Discharge Pipe (mm)	ϕ42	ϕ42	Φ54	Φ54	ϕ54	Φ67	Φ67
		Liquid in Pipe (mm)	ϕ28	ϕ28	ϕ35	ϕ35	Φ42	ϕ42	ϕ42
Overall Dimension		L (mm)	3300	3300	3500	3500	3800	3800	3800
		W (mm)	1120	1120	1120	1120	1120	1120	1120
		H (mm)	1700	1700	1700	1700	1850	1850	1850

Remarks: 1. All the above data calculated base on the condensing temperature 45℃ .