

RKL-RKM Scroll Compressor Racks



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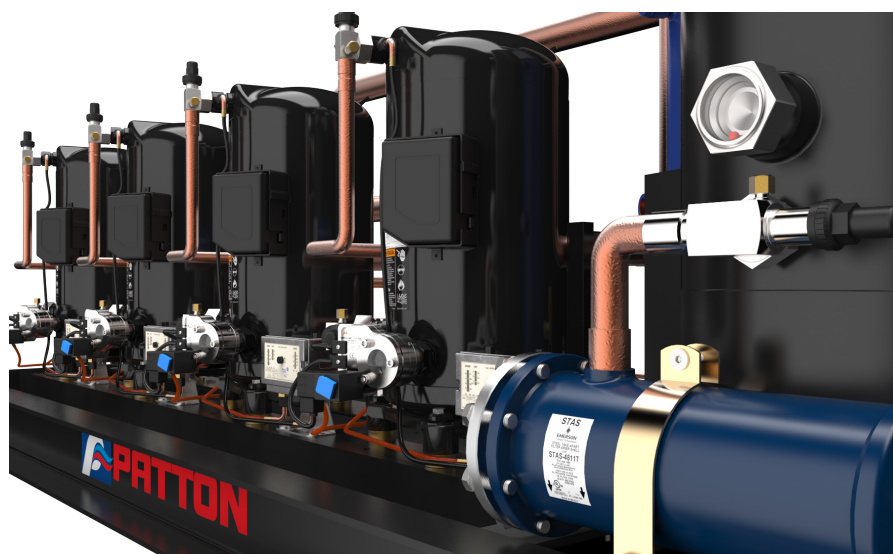
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RK L 2 ZF - 15

RK = Rack

L = Low Temp

M = Medium Temp

2 = 2 Compressor

3 = 3 Compressor

4 = 4 Compressor

15 = 15HP

ZF/ZB = Copeland Scroll Model

RACK FEATURES

Helical Oil Separator:



- High efficiency with no clogging
- Centrifugal flow path
- Easy read sight glasses
- Low pressure drop

Suction Accumulator:



- Eliminates compressor damage
- Liquid held and metered back
- Inlet deflector for improved performance

Scroll Compressor:

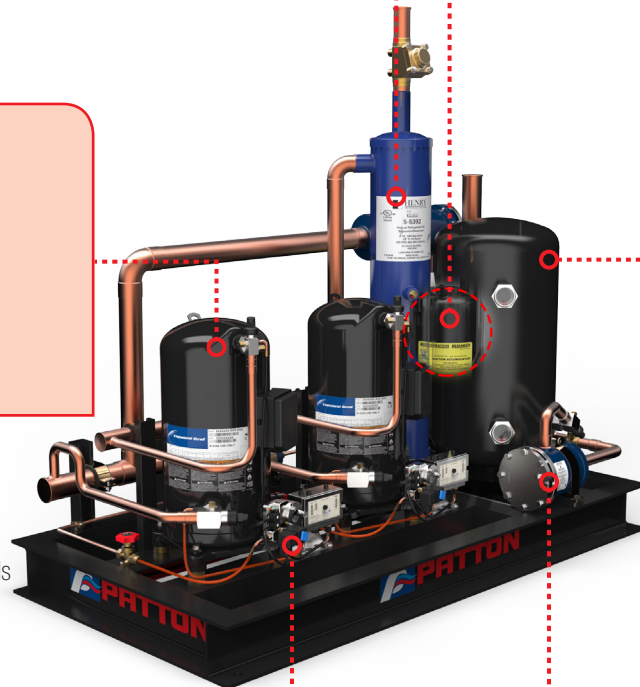


- Energy efficient
- Highly reliable
- High Performance
- Compact design
- Low & medium temp models

Vertical Receiver:



- Secure mounting
- Easy read sight glasses
- Pressure relief valve

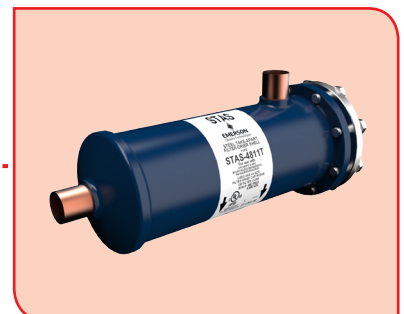


Traxoil – Oil Level Control:



- Detects/ alarms and controls oil level
- Compressor dedicated control logic
- Robust design
- Excellent sensing accuracy

Filter Drier:



- Removal of moisture, acid and debris
- Easy access with interchangeable filters
- Compressor protection



TWIN - SCROLL COMPRESSOR

LOW TEMP:

Cooling Capacity (kW)

R404A

MODEL	Compressor	Total (HP)	Condensing Temp (°C)	Evaporating Temp (°C)						
				-35	-30	-25	-20	-15	-10	-5
RKL2ZF-15	ZF24K4E-TWD	15	40	10.32	12.88	15.80	19.16	23.10	27.60	32.80
			45	9.56	11.96	14.66	17.74	21.30	25.50	30.30
			50	8.72	10.94	13.42	16.24	19.48	23.30	27.70
RKL2ZF-20	ZF33K4E-TWD	20	40	14.18	17.70	21.80	26.60	32.20	38.60	46.00
			45	13.10	16.36	20.10	24.50	29.60	35.60	42.40
			50	11.98	14.96	18.40	22.40	27.10	32.50	38.70
RKL2ZF-26	ZF40K4E-TWD	26	40	17.56	21.90	27.00	32.80	39.50	47.40	56.40
			45	16.26	20.30	24.90	30.30	36.40	43.60	52.00
			50	14.86	18.58	22.80	27.60	33.20	39.70	47.40
RKL2ZF-30	ZF48K4E-TWD	30	40	21.20	26.40	32.60	39.90	48.20	57.80	68.80
			45	19.60	24.40	30.10	36.80	44.40	53.40	63.40
			50	17.98	22.40	27.50	33.60	40.60	48.60	57.80

MEDIUM TEMP:

Cooling Capacity (kW)

R404A

MODEL	Compressor	Total (HP)	Condensing Temp (°C)	Evaporating Temp (°C)						
				-25	-20	-15	-10	-5	0	5
RKM2ZB-16	ZB58KQE-TFD	16	40	14.32	18.82	23.70	29.00	35.00	41.80	49.40
			45		16.82	21.50	26.60	32.20	38.50	45.60
			50			19.14	24.00	29.20	35.10	41.60
RKM2ZB-18	ZB66KQE-TFD	18	40	17.76	22.10	27.10	32.80	39.40	47.00	55.60
			45		20.30	24.90	30.20	36.30	43.20	51.00
			50			22.60	27.40	32.90	39.20	46.40
RKM2ZB-20	ZB76KQE-TFD	20	40	20.80	26.00	32.00	38.80	46.60	55.40	65.60
			45		23.80	29.40	35.70	42.80	51.00	60.40
			50			26.50	32.40	39.10	46.60	55.00
RKM2ZB-24	ZB88KQE-TFD	24	40	23.60	29.40	36.40	43.60	50.92	61.42	73.74
			45		24.80	31.00	39.90	48.20	58.40	69.80
			50			25.60	36.00	45.00	55.20	66.00
RKM2ZB-26	ZB95KQE-TFD	26	40	25.00	31.20	38.90	47.60	57.40	68.20	80.60
			45		28.20	35.30	43.40	52.60	63.80	74.20
			50			31.30	39.00	47.40	57.00	67.40
RKM2ZB-30	ZB114KQE-TFD	30	40	29.20	36.50	46.00	56.60	68.80	82.20	97.40
			45		33.00	41.40	51.60	62.80	75.60	89.80
			50			36.70	46.00	56.60	68.40	81.60

*Suction Header & Standard Accumulator Models.



TWIN - SCROLL COMPRESSOR

LOW TEMP:

Total Heat Rejection (kW)

R404A

MODEL	Compressor	Total (HP)	Condensing Temp (°C)	Evaporating Temp (°C)						
				-35	-30	-25	-20	-15	-10	-5
RKL2ZF-15	ZF24K4E-TWD	15	40	18.92	21.90	25.20	28.90	33.20	38.20	44.00
			45	18.84	21.70	24.80	28.40	32.40	37.00	42.20
			50	18.70	21.50	24.40	27.70	31.40	35.60	40.60
RKL2ZF-20	ZF33K4E-TWD	20	40	25.30	29.40	34.20	39.60	45.80	52.80	61.00
			45	25.10	29.10	33.60	38.60	44.40	51.00	58.40
			50	25.00	28.70	32.90	37.60	43.00	49.00	56.00
RKL2ZF-26	ZF40K4E-TWD	26	40	31.60	36.80	42.60	49.20	56.60	65.20	75.00
			45	31.60	36.50	41.80	48.00	55.00	63.00	72.00
			50	31.50	36.10	41.20	46.80	53.20	60.60	69.00
RKL2ZF-30	ZF48K4E-TWD	30	40	39.60	45.80	52.80	61.00	70.20	80.80	92.80
			45	39.60	45.40	52.20	59.80	68.40	78.20	89.40
			50	39.70	45.20	51.40	58.60	66.60	75.60	86.00

MEDIUM TEMP:

Total Heat Rejection (kW)

R404A

MODEL	Compressor	Total (HP)	Condensing Temp (°C)	Evaporating Temp (°C)						
				-25	-20	-15	-10	-5	0	5
RKM2ZB-16	ZB58KQE-TFD	16	40	25.00	29.50	34.40	39.80	45.80	52.60	60.20
			45		28.80	33.50	38.60	44.20	50.60	57.60
			50			32.60	37.40	42.60	48.40	55.00
RKM2ZB-18	ZB66KQE-TFD	18	40	29.60	34.00	39.10	45.00	51.60	59.20	68.00
			45		33.60	38.30	43.60	49.80	56.80	64.80
			50			37.60	42.40	48.00	54.20	61.40
RKM2ZB-20	ZB76KQE-TFD	20	40	34.30	39.70	45.80	52.80	60.60	69.60	79.80
			45		39.00	44.80	51.20	58.40	66.80	76.20
			50			43.60	49.60	56.40	64.00	72.60
RKM2ZB-24	ZB88KQE-TFD	24	40	37.40	43.40	50.60	57.80	65.40	76.00	88.60
			45		40.20	47.00	55.80	64.20	74.80	86.40
			50			43.40	54.00	63.00	73.40	84.30
RKM2ZB-26	ZB95KQE-TFD	26	40	42.20	49.00	56.60	65.40	75.40	86.40	99.00
			45		47.80	55.20	63.40	72.60	83.00	94.60
			50			53.80	61.40	69.80	79.40	90.00
RKM2ZB-30	ZB114KQE-TFD	30	40	49.80	58.00	67.40	78.20	90.40	104.20	119.60
			45		56.40	65.60	75.40	86.80	99.60	114.20
			50			64.00	73.00	83.40	95.20	108.60

*Suction Header & Standard Accumulator Models.



THREE - SCROLL COMPRESSOR

LOW TEMP:				Cooling Capacity (kW)		R404A				
MODEL	Compressor	Total (HP)	Condensing Temp (°C)	Evaporating Temp (°C)						
				-35	-30	-25	-20	-15	-10	-5
RKL3ZB-23	ZF24K4E-TWD	23	40	15.48	19.32	23.70	28.74	34.65	41.40	49.20
			45	14.34	17.94	21.99	26.61	31.95	38.25	45.45
			50	13.08	16.41	20.13	24.36	29.22	34.95	41.55
RKL3ZB-30	ZF33K4E-TWD	30	40	21.27	26.55	32.70	39.90	48.30	57.90	69.00
			45	19.65	24.54	30.15	36.75	44.40	53.40	63.60
			50	17.97	22.44	27.60	33.60	40.65	48.75	58.05
RKL3ZB-39	ZF40K4E-TWD	39	40	26.34	32.85	40.50	49.20	59.25	71.10	84.60
			45	24.39	30.45	37.35	45.45	54.60	65.40	78.00
			50	22.29	27.87	34.20	41.40	49.80	59.55	71.10
RKL3SC-45	ZF48K4E-TWD	45	40	31.80	39.60	48.90	59.85	72.30	86.70	103.20
			45	29.40	36.60	45.15	55.20	66.60	80.10	95.10
			50	26.97	33.60	41.25	50.40	60.90	72.90	86.70

MEDIUM TEMP:				Cooling Capacity (kW)		R404A				
MODEL	Compressor	Total (HP)	Condensing Temp (°C)	Evaporating Temp (°C)						
				-25	-20	-15	-10	-5	0	5
RKM3ZB-24	ZB58KQE-TFD	24	40	21.48	28.23	35.55	43.50	52.50	62.70	74.10
			45							
			50							
RKM3ZB-27	ZB66KQE-TFD	27	40	26.64	33.15	40.65	49.20	59.10	70.50	83.40
			45							
			50							
RKM3ZB-30	ZB76KQE-TFD	30	40	31.20	39.00	48.00	58.20	69.90	83.10	98.40
			45							
			50							
RKM3ZB-36	ZB88KQE-TFD	36	40	35.40	44.10	54.60	65.40	76.38	92.13	110.61
			45							
			50							
RKM3ZB-39	ZB95KQE-TFD	39	40	37.50	46.80	58.35	71.40	86.10	102.30	120.90
			45							
			50							
RKM3ZB-45	ZB114KQE-TFD	45	40	43.80	54.75	69.00	84.90	103.20	123.30	146.10
			45							
			50							

*Suction Header & Standard Accumulator Models.



THREE - SCROLL COMPRESSOR

LOW TEMP:				Total Heat Rejection (kW)		R404A				
MODEL	Compressor	Total (HP)	Condensing Temp (°C)	Evaporating Temp (°C)						
				-35	-30	-25	-20	-15	-10	-5
RKL3ZB-23	ZF24K4E-TWD	23	40	28.38	32.85	37.80	43.35	49.80	57.30	66.00
			45	28.26	32.55	37.20	42.60	48.60	55.50	63.30
			50	28.05	32.25	36.60	41.55	47.10	53.40	60.90
RKL3ZB-30	ZF33K4E-TWD	30	40	37.95	44.10	51.30	59.40	68.70	79.20	91.50
			45	37.65	43.65	50.40	57.90	66.60	76.50	87.60
			50	37.50	43.05	49.35	56.40	64.50	73.50	84.00
RKL3ZB-39	ZF40K4E-TWD	39	40	47.40	55.20	63.90	73.80	84.90	97.80	112.50
			45	47.40	54.75	62.70	72.00	82.50	94.50	108.00
			50	47.25	54.15	61.80	70.20	79.80	90.90	103.50
RKL3SC-45	ZF48K4E-TWD	45	40	59.40	68.70	79.20	91.50	105.30	121.20	139.20
			45	59.40	68.10	78.30	89.70	102.60	117.30	134.10
			50	59.55	67.80	77.10	87.90	99.90	113.40	129.00

MEDIUM TEMP:				Total Heat Rejection (kW)		R404A				
MODEL	Compressor	Total (HP)	Condensing Temp (°C)	Evaporating Temp (°C)						
				-25	-20	-15	-10	-5	0	5
RKM3ZB-24	ZB58KQE-TFD	24	40	37.50	44.25	51.60	59.70	68.70	78.90	90.30
			45		43.20	50.25	57.90	66.30	75.90	86.40
			50		48.90	56.10	63.90	72.60	82.50	
RKM3ZB-27	ZB66KQE-TFD	27	40	44.40	51.00	58.65	67.50	77.40	88.80	102.00
			45		50.40	57.45	65.40	74.70	85.20	97.20
			50		56.40	63.60	72.00	81.30	92.10	
RKM3ZB-30	ZB76KQE-TFD	30	40	51.45	59.55	68.70	79.20	90.90	104.40	119.70
			45		58.50	67.20	76.80	87.60	100.20	114.30
			50		65.40	74.40	84.60	96.00	108.90	
RKM3ZB-36	ZB88KQE-TFD	36	40	56.10	65.10	75.90	86.70	98.10	114.00	132.90
			45		60.30	70.50	83.70	96.30	112.20	129.60
			50		65.10	81.00	94.50	110.10	126.45	
RKM3ZB-39	ZB95KQE-TFD	39	40	63.30	73.50	84.90	98.10	113.10	129.60	148.50
			45		71.70	82.80	95.10	108.90	124.50	141.90
			50		80.70	92.10	104.70	119.10	135.00	
RKM3ZB-45	ZB114KQE-TFD	45	40	74.70	87.00	101.10	117.30	135.60	156.30	179.40
			45		84.60	98.40	113.10	130.20	149.40	171.30
			50		96.00	109.50	125.10	142.80	162.90	

*Suction Header & Standard Accumulator Models.



FOUR - SCROLL COMPRESSOR

LOW TEMP:

Cooling Capacity (kW)

R404A

MODEL	Compressor	Total (HP)	Condensing Temp (°C)	Evaporating Temp (°C)						
				-35	-30	-25	-20	-15	-10	-5
RKL4ZF-30	ZF24K4E-TWD	30	40	20.64	25.76	31.60	38.32	46.20	55.20	65.60
			45	19.12	23.92	29.32	35.48	42.60	51.00	60.60
			50	17.44	21.88	26.84	32.48	38.96	46.60	55.40
RKL4ZF-40	ZF33K4E-TWD	40	40	28.36	35.40	43.60	53.20	64.40	77.20	92.00
			45	26.20	32.72	40.20	49.00	59.20	71.20	84.80
			50	23.96	29.92	36.80	44.80	54.20	65.00	77.40
RKL4ZF-42	ZF40K4E-TWD	52	40	35.12	43.80	54.00	65.60	79.00	94.80	112.80
			45	32.52	40.60	49.80	60.60	72.80	87.20	104.00
			50	29.72	37.16	45.60	55.20	66.40	79.40	94.80
RKL4ZF-60	ZF48K4E-TWD	60	40	42.40	52.80	65.20	79.80	96.40	115.60	137.60
			45	39.20	48.80	60.20	73.60	88.80	106.80	126.80
			50	35.96	44.80	55.00	67.20	81.20	97.20	115.60

MEDIUM TEMP:

Cooling Capacity (kW)

R404A

MODEL	Compressor	Total (HP)	Condensing Temp (°C)	Evaporating Temp (°C)						
				-25	-20	-15	-10	-5	0	5
RKM4ZB-32	ZB58KQE-TFD	32	40	28.64	37.64	47.40	58.00	70.00	83.60	98.80
			45		33.64	43.00	53.20	64.40	77.00	91.20
			50			38.28	48.00	58.40	70.20	83.20
RKM4ZB-36	ZB66KQE-TFD	36	40	35.52	44.20	54.20	65.60	78.80	94.00	111.20
			45		40.60	49.80	60.40	72.60	86.40	102.00
			50			45.20	54.80	65.80	78.40	92.80
RKM4ZB-40	ZB76KQE-TFD	40	40	41.60	52.00	64.00	77.60	93.20	110.80	131.20
			45		47.60	58.80	71.40	85.60	102.00	120.80
			50			53.00	64.80	78.20	93.20	110.00
RKM4ZB-48	ZB88KQE-TFD	48	40	47.20	58.80	72.80	87.20	101.84	122.84	147.48
			45		49.60	62.00	79.80	96.40	116.80	139.60
			50			51.20	72.00	90.00	110.40	132.00
RKM4ZB-52	ZB95KQE-TFD	52	40	50.00	62.40	77.80	95.20	114.80	136.40	161.20
			45		56.40	70.60	86.80	105.20	137.60	148.40
			50			62.60	78.00	94.80	114.00	134.80
RKM4ZB-60	ZB114KQE-TFD	60	40	58.40	73.00	92.00	113.20	137.60	164.40	194.80
			45		66.00	82.80	103.20	125.60	151.20	179.60
			50			73.40	92.00	113.20	136.80	163.20

*Suction Header & Standard Accumulator Models.



FOUR - SCROLL COMPRESSOR

LOW TEMP:

Total Heat Rejection (kW)

R404A

MODEL	Compressor	Total (HP)	Condensing Temp (°C)	Evaporating Temp (°C)						
				-35	-30	-25	-20	-15	-10	-5
RKL4ZF-30	ZF24K4E-TWD	30	40	37.84	43.80	50.40	57.80	66.40	76.40	88.00
			45	37.68	43.40	49.60	56.80	64.80	74.00	84.40
			50	37.40	43.00	48.80	55.40	62.80	71.20	81.20
RKL4ZF-40	ZF33K4E-TWD	40	40	50.60	58.80	68.40	79.20	91.60	105.60	122.00
			45	50.20	58.20	67.20	77.20	88.80	102.00	116.80
			50	50.00	57.40	65.80	75.20	86.00	98.00	112.00
RKL4ZF-42	ZF40K4E-TWD	52	40	63.20	73.60	85.20	98.40	113.20	130.40	150.00
			45	63.20	73.00	83.60	96.00	110.00	126.00	144.00
			50	63.00	72.20	82.40	93.60	106.40	121.20	138.00
RKL4ZF-60	ZF48K4E-TWD	60	40	79.20	91.60	105.60	122.00	140.40	161.60	185.60
			45	79.20	90.80	104.40	119.60	136.80	156.40	178.80
			50	79.40	90.40	102.80	117.20	133.20	151.20	172.00

MEDIUM TEMP:

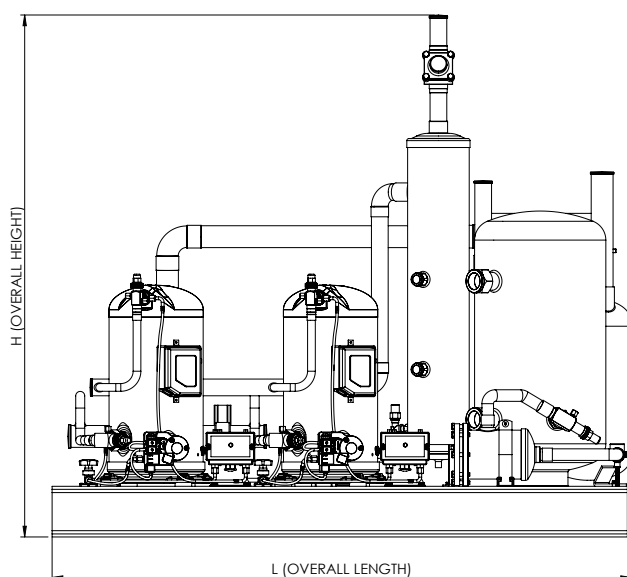
Total Heat Rejection (kW)

R404A

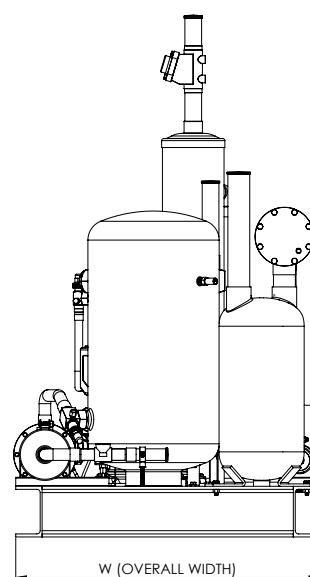
MODEL	Compressor	Total (HP)	Condensing Temp (°C)	Evaporating Temp (°C)						
				-25	-20	-15	-10	-5	0	5
RKM4ZB-32	ZB58KQE-TFD	32	40	50.00	59.00	68.80	79.60	91.60	105.20	120.40
			45		57.60	67.00	77.20	88.40	101.20	115.20
			50			65.20	74.80	85.20	96.80	110.00
RKM4ZB-36	ZB66KQE-TFD	36	40	59.20	68.00	78.20	90.00	103.20	118.40	136.00
			45		67.20	76.60	87.20	99.60	113.60	129.60
			50			75.20	84.80	96.00	108.40	122.80
RKM4ZB-40	ZB76KQE-TFD	40	40	68.60	79.40	91.60	105.60	121.20	139.20	159.60
			45		78.00	89.60	102.40	116.80	133.60	152.40
			50			87.20	99.20	112.80	128.00	145.20
RKM4ZB-48	ZB88KQE-TFD	48	40	74.80	86.80	101.20	115.60	130.80	152.00	177.20
			45		80.40	94.00	111.60	128.40	149.60	172.80
			50			86.80	108.00	126.00	146.80	168.60
RKM4ZB-52	ZB95KQE-TFD	52	40	84.40	98.00	113.20	130.80	150.80	172.80	198.00
			45		95.60	110.40	126.80	145.20	166.00	189.20
			50			107.60	122.80	139.60	158.80	180.00
RKM4ZB-60	ZB114KQE-TFD	60	40	99.60	116.00	134.80	156.40	180.80	208.40	239.20
			45		112.80	131.20	150.80	173.60	199.20	228.40
			50			128.00	146.00	166.80	190.40	217.20

*Suction Header & Standard Accumulator Models.

DIMENSIONS (mm):



FRONT ELEVATION



SIDE ELEVATION

NTS (mm)

2 Compressor			3 Compressor			4 Compressor		
L	W	H	L	W	H	L	W	H
1430	750	1330	1910	750	1420	2340	750	1420

TECHNICAL DATA:

Models	Nett Weight (kg)	Receiver Capacity (kg)*	Models	Nett Weight (kg)	Receiver Capacity (kg)*	Models	Nett Weight (kg)	Receiver Capacity (kg)*
RKL2ZF-15	420.0	20.0	RKL3ZB-23	620.0	36.3	RKL4ZF-30	770.0	36.3
RKL2ZF-20	420.0	20.0	RKL3ZB-30	620.0	36.3	RKL4ZF-40	770.0	61.0
RKL2ZF-26	426.0	28.2	RKL3ZB-39	629.0	61.0	RKL4ZF-42	782.0	61.0
RKL2ZF-30	444.0	28.2	RKL3SC-45	656.0	61.0	RKL4ZF-60	818.0	61.0
RKM2ZB-16	334.0	20.0	RKM3ZB-24	491.0	36.3	RKM4ZB-32	598.0	61.0
RKM2ZB-18	339.0	28.2	RKM3ZB-27	499.0	36.3	RKM4ZB-36	609.0	61.0
RKM2ZB-20	342.0	28.2	RKM3ZB-30	503.0	61.0	RKM4ZB-40	614.0	61.0
RKM2ZB-24	346.0	28.2	RKM3ZB-36	509.0	61.0	RKM4ZB-48	622.0	61.0
RKM2ZB-26	349.0	36.3	RKM3ZB-39	514.0	61.0	RKM4ZB-52	629.0	61.0
RKM2ZB-30	352.0	36.3	RKM3ZB-45	518.0	61.0	RKM4ZB-60	634.0	61.0

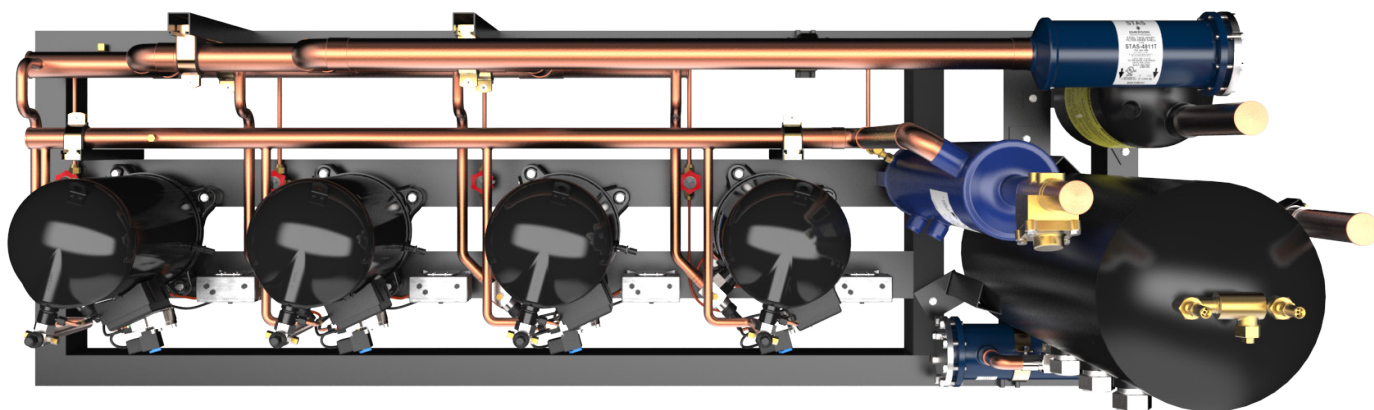
*Receiver capacity R404A pump down capacity @ 80% for 32°C liquid temp.

LOW TEMP COMPRESSOR SPECIFICATIONS

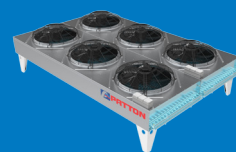
MODEL	Displacement (m³/h)	Max Current (A)	Locked Rotor Current (A)	Suction (inch)	Discharge (inch)	Net Weight (kg)
ZF24K4E-TWD	20.9	16.1	99	1 1/8	5/8	100
ZF33K4E-TWD	28.8	22.3	127	1 3/8	5/8	100
ZF40K4E-TWD	35.6	25.1	167	1 3/8	5/8	103
ZF48K4E-TWD	42.8	28.7	198	1 5/8	7/8	112

MEDIUM TEMP COMPRESSOR SPECIFICATIONS

MODEL	Displacement (m³/h)	Max Current (A)	Locked Rotor Current (A)	Suction (inch)	Discharge (inch)	Net Weight (kg)
ZB58KQE-TFD	22.1	15.6	95	1 3/8	5/8	57.2
ZB66KQE-TFD	24.9	17.5	111	1 3/8	5/8	59.9
ZB76KQE-TFD	29.1	20.4	118	1 3/8	5/8	61.2
ZB88KQE-TFD	33.2	22.3	118	1 3/8	5/8	63.2
ZB95KQE-TFD	36.4	28.2	140	1 3/8	5/8	64.9
ZB114KQE-TFD	43.3	33.3	174	1 5/8	7/8	66.2



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The company reserves the right to make specification changes without notice. 03/02/2017

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