



# Scroll Compressors Cross Reference



+10°C

-40°C



## Special Design For Heat Pump

DWM Copeland				DANFOSS				INVOTECH			
<b>R407C</b>				<b>380/415V-3Ph-50Hz 440/460V-3Ph-60Hz</b>				<b>Cooling Capacity</b>			
Model	c.c.	HP	KW	Model	c.c.	HP	KW	Model	c.c.	HP	KW
ZH21K4E-TFD	45.98	3.00	7.30	HHP021T4LP6	46.00	3.00	7.17	YW75TI-100	46.55	3.00	7.26
ZH30K4E-TFD	67.24	4.00	10.65	HHP030T4LC6	67.00	4.00	10.76	YW110TI-100	67.82	4.00	10.75
ZH38K4E-TFD	82.76	5.00	13.20	HHP038T4LC6	82.00	5.00	13.41	YW135TI-100	83.33	5.00	12.97
ZH45K4E-TWD	98.28	6.00	15.90	HHP045T4LC6	99.00	6.00	15.40	YW160TI-100	98.27	6.00	15.16
								YW190TI-100	115.517	7.00	18.624
ZH56K4E-TWD	120.11	8.00	19.40					YW205TI-100	122.988	8.00	19.738
								YW245TI-100	145.40	9.00	23.52
ZH75K4E-TWD	165.52	10.00	27.20					YW285TI-100	167.24	10.00	27.36
ZH92K4E-TWD	204.60	13.00	34.70					YW320TI-100	189.08	12.00	30.72
Operation Conditions ARI +5°C +55°C				Operation Conditions ARI +5°C +55°C				Operation Conditions ARI +5°C +55°C			
<b>R134a</b>				<b>380/415V-3Ph-50Hz 440/460V-3Ph-60Hz</b>				<b>Cooling Capacity</b>			
Model	c.c.	HP	KW	Model	c.c.	HP	KW	Model	c.c.	HP	KW
ZH21K4E-TFD	45.98	3.00	5.55					YW55JI-100	46.55	3.00	5.51
ZH30K4E-TFD	67.24	4.00	8.04					YW80JI-100	67.82	4.00	8.00
ZH38K4E-TFD	82.76	5.00	9.89					YW100JI-100	83.33	5.00	9.35
ZH45K4E-TWD	98.28	6.00	11.95					YW120JI-100	98.27	6.00	11.59
								YW140JI-100	115.52	7.00	13.50
ZH56K4E-TWD	120.11	8.00	14.45					YW155JI-100	122.99	8.00	14.50
								YW180JI-100	145.40	9.00	17.00
ZH75K4E-TWD	165.52	10.00	20.10					YW200JI-100	167.24	10.00	19.60
ZH92K4E-TWD	204.60	13.00	25.50					YW240JI-100	189.08	12.00	23.98
Operation Conditions ARI +7.2°C +54.4°C				Operation Conditions ARI +7.2°C +54.4°C				Operation Conditions ARI +7.2°C +54.4°C			
<b>R410A</b>				<b>380/415V-3Ph-50Hz 440/460V-3Ph-60Hz</b>				<b>Cooling Capacity</b>			
Model	c.c.	HP	KW	Model	c.c.	HP	KW	Model	c.c.	HP	KW
ZH06K1P-TFM	29.31	3.00	6.97					YW75CI-100	33.33	3.00	7.8
ZH09K1P-TFM	39.66	4.00	9.45					YW110CI-100	46.55	4.00	10.7
ZH12K1P-TFM	51.15	5.00	12.10					YW135CI-100	59.2	5.00	13.7
ZH15K1P-TFM	67.24	6.00	15.95					YW160CI-100	67.82	6.00	15.8
								YW270CI-100	115.52	10.00	27.5
								YW320CI-100	131.61	12.00	31.5
Operation Conditions ARI +5°C +55°C				Operation Conditions ARI +5°C +55°C				Operation Conditions ARI +5°C +55°C			



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It is the outstanding engineering capability that builds the incomparable reliability

# Special Design For A/C and Chiller

DWM Copeland				SANYO				DANFOSS				INVOTECH			
R407C				380/415V-3Ph-50Hz				440/460V-3Ph-60Hz				Cooling Capacity			
Model	c.c.	HP	KW	Model	c.c.	HP	KW	Model	c.c.	HP	KW	Model	c.c.	HP	KW
ZR28K3E-TFD	39.08	2.00	6.65									YH69TI-100	38.10	2.00	6.53
ZR36K3E-TFD	48.68	3.00	8.45					HRP038T4	51.60	3.20	8.84	YH89TI-100	49.00	3.00	8.50
ZR42K3E-TFD	56.72	3.50	9.75	C-SBN263H8A	55.70	3.50	9.60	HRP042T4	57.20	3.50	9.58	YH104TI-100	59.00	3.50	10.20
ZR48K3E-TFD	65.52	4.00	11.40	C-SBN303H8G	66.80	4.00	11.60	HRP048T4	64.40	4.00	11.10	YH119TI-100	65.70	4.00	11.40
ZR52K3E-TFD	72.58	4.00	12.35					HRP051T4	68.80	4.30	12.13	YH128TI-100	71.00	4.00	12.40
ZR54KCE-TFD	75.37	4.50	12.40					HRP054T4	72.80	4.50	12.70	YH133TI-100	73.80	4.50	12.70
ZR57KCE-TFD	77.33	4.60	13.10	C-SBN353H8G	77.40	4.60	13.40	HRP058T4	78.20	4.80	13.48	YH140TI-100	77.10	4.60	13.30
ZR61KCE-TFD	82.76	5.00	14.30	C-SBN373H8G	83.20	5.00	14.50	HRP060T4	81.00	5.00	13.86	YH150TI-100	82.90	5.00	14.40
ZR72KCE-TFD	98.28	6.00	16.60	C-SBN453H8G	100.00	6.00	17.60	HLP072T4	98.70	6.00	16.62	YH175TI-100	96.70	6.00	16.80
								HLP075T4	102.80	6.30	18.04	YH190TI-100	104.02	6.50	18.05
ZR81KCE-TFD	108.05	7.00	18.60	C-SBS235H38B	110.20	7.00	19.50	HLP081T4	110.90	6.80	19.49	YH200TI-100	106.70	7.00	19.20
ZR94KCE-TFD	127.01	8.00	23.00	C-SCN583H8H	131.90	8.00	23.60	HCP094T4	126.00	8.00	21.59	YH230TI-100	122.30	8.00	22.10
				C-SCN603H8H	137.00	8.00	24.50								
ZRI08KCE-TFD	143.10	9.00	25.80	C-SCN673H8H	148.80	9.00	26.50	HCP109T4	148.80	9.00	26.06	YH266TI-100	141.10	9.00	25.50
ZRI25KCE-TFD	167.24	10.00	30.20	C-SCN753H8H	171.20	10.00	29.90	HCP120T4	162.40	10.00	28.15	YH307TI-100	166.30	10.00	29.50
ZRI44KCE-TFD	190.80	12.00	34.60	C-SCN903H8H	205.40	12.00	34.90	SZI48-4	199.00	12.00	35.12	YH355TI-100	188.00	12.00	34.10
ZRI60KCE-TFD	209.19	13.00	37.50					SZI61-4	216.60	10.00	38.01	YSH400TI-100	216.67	13.00	38.98
ZRI90KCE-TFD	248.84	15.00	44.00					SZI85-4	249.90	12.00	43.11	YSH450TI-100	244.25	15.00	43.97
<b>R410A</b>				<b>380/415V-3Ph-50Hz</b>				<b>440/460V-3Ph-60Hz</b>				<b>Cooling Capacity</b>			
ZP36KSE-TFMN	34.48	3.00	8.92	C-SBP120H38A	39.90	3.50	10.00	HRH038U4	36.50	3.20	9.25	YH95CI-100	38.30	3.50	9.50
ZP49KSE-TFD	46.93	4.00	11.95	C-SBP140H38A	46.40	4.00	11.70	HRH049U4	47.40	4.10	12.11	YH119CI-100	45.70	4.00	11.90
ZP54KSE-TFMN	51.15	4.50	12.95	C-SBP160H38A	51.80	4.60	13.20	HRH051U4	49.30	4.30	12.86	YH128CI-100	49.10	4.50	12.80
ZP61KCE-TFD	58.05	5.00	14.70	C-SBP170H38A	55.70	5.00	14.20	HLH061T4	57.80	5.10	15.21	YH150CI-100	58.90	5.00	15.00
ZP72KCE-TFD	67.24	6.00	17.15	C-SBP205H38A	66.80	6.00	16.80	HLH072T4	68.00	6.00	17.84	YH175CI-100	65.70	6.00	17.30
ZP76KCE-TFD	70.98	6.50	18.35					HLH075T4	70.80	6.30	18.60	YH183CI-100	70.90	6.50	18.30
ZP90KCE-TFD	83.91	8.00	21.80	C-SCP270H38A	89.20	8.00	22.40	HCP090T4	86.90	7.50	22.32	YH230CI-100	90.30	8.00	23.00
ZPI03KCE-TFD	96.55	9.00	25.20	C-SCP315H38A	104.10	10.00	26.00	HCP105T4	101.60	8.80	26.10	YH266CI-100	99.40	9.00	26.60
ZPI22KCE-TFD	112.07	10.00	30.00									YH292CI-100	106.90	10.00	29.20
ZPI37KCE-TFD	127.01	11.00	32.60	C-SCP360H38A	120.20	11.00	29.80	HCJ120T4	116.40	10.00	29.61	YH325CI-100	122.30	11.00	32.50
ZPI44KCE-TFD	133.50	12.00	35.50	C-SCP400H38A	127.80	12.00	32.20	SHI40-4	133.00	12.00	34.70	YH355CI-100	131.61	12.00	34.80
Operation Conditions ARI +7.2°C +54.4°C															

R404A MHPB				380/415V-3Ph-50Hz				440/460V-3Ph-60Hz				Cooling Capacity			
Model	c.c.	HP	KW	Model	c.c.	HP	KW	Model	c.c.	HP	KW	Model	c.c.	HP	KW
ZBI5KCE-TFD	33.91	2.00	3.44					MLZ015T4		2.00	3.24	YM34EIG-100	33.30	2.00	3.47
ZBI9KCE-TFD	39.08	2.50	4.08					MLZ019T4	43.50	2.50	4.39	YM43EIG-100	41.90	2.50	4.38
ZB21KCE-TFD	49.43	3.00	5.26					MLZ021T4	46.20	3.00	4.66	YM49EIG-100	46.20	3.00	5.00
ZB30KCE-TFD	67.24	4.00	7.17	C-SBN303L8A	66.8	4	5.3	MLZ030T4	68.80	4.00	7.03	YM70EIG-100	67.60	4.00	7.14
ZB38KCE-TFD	82.76	5.00	8.91	C-SBN373L8A	83.2	5	6.8	MLZ038T4	81.00	5.00	8.34	YM86EIG-100	82.90	5.00	8.75
ZB45KCE-TFD	98.28	6.00	10.50	C-SBN453L8A	104	6	8.1	MLZ045T4	98.60	6.00	10.03	YM102EIG-100	97.60	6.00	10.38
ZB50KCE-TFD	117.79	7.00	12.50					MLZ048T4	107.50	7.00	10.94	YM125EIG-100	114.90	7.00	12.75
ZB58KCE-TFD	127.01	8.00	13.95					MLZ058T4	126.00	7.50	12.88	YM132EIG-100	122.30	8.00	13.43
ZB66KCE-TFD	143.10	9.00	15.75					MLZ066T4	148.80	9.00	14.97	YM158EIG-100	144.60	9.00	16.10
ZB76KCE-TFD	167.24	10.00	18.65					MLZ076T4	162.40	10.00	16.73	YM182EIG-100	166.30	10.00	18.60
												YM200EIG-100	188.00	12.00	20.35
												YM210EIG-100	196.00	12.00	21.40
ZB95KCE-TFD	209.20	13.00	22.70									YSM235EIG-100	216.67	13.00	23.22
ZBI14KCE-TFD	248.84	15.00	27.00									YSM260EIG-100	244.25	15.00	25.69
Operation Conditions ARI -6.7°C +48.9°C				Operation Conditions ARI -15°C +50°C				Operation Conditions ARI -6.7°C +48.9°C				Operation Conditions ARI -6.7°C +48.9°C			

R404A LBP				380/415V-3Ph-50Hz				440/460V-3Ph-60Hz				Cooling Capacity			
Model	c.c.	HP	KW	Model	c.c.	HP	KW	Model	c.c.	HP	KW	Model	c.c.	HP	KW
ZF06K4E-TFD	33.91	2.00	1.63									YF13EIG-Q100	33.30	2.00	1.54
ZF08K4E-TFD	41.95	2.50	2.03									YF17EIG-Q100	41.90	2.50	1.97
ZF09K4E-TFD	45.98	3.00	2.23					LLZ013T4	46.20	3.00	2.84	YF20EIG-Q100	46.20	3.00	2.33
ZF13K4E-TFD	67.82	4.00	3.19	C-SBN303L8A	66.8	4	5.3	LLZ015T4	68.80	4.00	3.44	YF29EIG-Q100	67.60	4.00	3.42
ZF15K4E-TFD	83.33	5.00	3.92	C-SBN373L8A	83.2	5	6.8					YF35EIG-Q100	82.90	5.00	3.70
ZF18K4E-TFD	98.28	6.00	4.78	C-SBN453L8A	104	6	8.1	LLZ018T4	98.60	6.00	4.05	YF41EIG-Q100	97.60	6.00	4.30
Operation Conditions ARI -31.6°C +40.6°C				Operation Conditions ARI -15°C +50°C				Operation Conditions ARI -31.6°C +40.6°C				Operation Conditions ARI -31.6°C +40.6°C			

DWM Copeland				SANYO				Bitzer				INVOTECH (Semi-Hermetic Scroll)			
R404A LBP				380/415V-3Ph-50Hz				440/460V-3Ph-60Hz				Cooling Capacity			
Model	c.c.	HP	KW	Model	c.c.	HP	KW	Model	m³/h	HP	KW	Model	c.c.	HP	KW
ZF18KVE-TFDEVI	98.28	6.00	6.84	C-SCN523L8H	120	7	9.25	4CES-6Y-40S	32.48	6.00	6.42	YSF60EIG-V100	115.50	7.00	6.91
				C-SCN603L8H	137	8	10.5	4TES-9Y-40P	41.33	9.00	7.79	YSF65EIG-V100	123.00	8.00	7.36
ZF25K5E-TFDEVI	122.99	8.00	8.73					4PES-12Y-40P	48.50	12.00	8.49	YSF75EIG-V100	145.40	9.00	8.70
ZF34K5E-TFDEVI	167.24	10.00	11.70	C-SCN753L8H	171.2	10	13.05	4NES-14Y-40P	56.25	14.00	10.60	YSF85EIG-V100	167.20	10.00	10.01
												YSF90EIG-V100	189.10	12.00	11.32
ZF41K5E-TFDEVI	202.87	13.00	14.10					4JE-15Y-40P	63.50	15.00	12.77	YSF100EIG-V100	197.10	13.00	11.80
ZF49K5E-TFDEVI	243.67	15.00	15.95					4HE-18Y-40P	73.60	18.00	15.31	YSF125EIG-V100	248.28	15.00	14.60
Operation Conditions ARI -31.6°C +40.6°C				Operation Conditions ARI -15°C +50°C				Operation Conditions ARI -31.6°C +40.6°C				Operation Conditions ARI -31.6°C +40.6°C			

# Special Design For Mid Temp. and Lower Temp. Application