



BY JOHNSON CONTROLS

**YK CENTRIFUGAL LIQUID CHILLER
MOD "G" GEAR DATA**

TECHNICAL DATA

Supersedes: 160.49-TD5 (1096)

Form 160.75-TD2 (109)

Company Confidential
For individual jobs - do *NOT* distribute the entire list

GEAR SET			Impeller RPM	
Compressor	Gear Code	Gear Ratio	50 hz	60 hz
			Motor RPM (constant speed)	
			2975	3570
Q3, Q4, Q5, Q6 & Q7	WA	2.4634	7329	8794
	WB	2.5500	7586	9104
	WC	2.6410	7857	9428
	WD	2.7297	8121	9745
	WE	2.8108	8362	10035
	WF	2.8889	8594	10313
	WG	2.9714	8840	10608
	WH	3.0588	9100	10920
	WJ	3.1471	9363	11235
	WK	3.2424	9646	11575
	WL	3.3438	9948	11937
	WM	3.4375	10227	12272
	WN	3.5484	10556	12668
	WP	3.6667	10908	13090
	WQ	3.7931	11284	13541
	WR	3.8929	11581	13898
	WS	4.0000	11900	14280
	WT	4.1111	12231	14677
	WU	4.2222	12561	15073
	WV	4.3462	12930	15516
	WW	4.4800	13328	15994
	WX	4.6000	13685	16422
	WY	4.7500	14131	16958
	WZ	4.8750	14503	17404
XA	5.0435	15004	18005	
XB	5.1818	15416	18499	
XC	5.3636	15957	19148	
XD	5.5238	16433	19720	
XE	5.7000	16958	20349	
XF	5.8500	17404	20885	
XG	6.0526	18006	21608	
XH	6.2105	18476	22171	

GEAR SET			Impeller RPM	
Compressor	Gear Code	Gear Ratio	50 hz	60 hz
			Motor RPM (constant speed)	
			2975	3570
P7, P8, P9 & H9	SI	1.4923	4440	5328
	SJ	1.5313	4555	5467
	SK	1.5714	4675	5610
	SL	1.6129	4798	5758
	SM	1.6452	4894	5873
	SN	1.6885	5023	6028
	SO	1.7333	5157	6188
	SP	1.7797	5294	6353
	SQ	1.8246	5428	6514
	SR	1.8750	5578	6694
	SS	1.9123	5689	6827
	ST	1.9643	5844	7013
	SU	2.0185	6005	7206
	SV	2.0741	6170	7404
	SW	2.1154	6293	7552
	SX	2.1765	6475	7770
	SY	2.2353	6650	7980
	SZ	2.2857	6800	8160
	TA	2.3469	6982	8379
	TB	2.4043	7153	8583
TC	2.4681	7343	8811	
TD	2.5319	7532	9039	
RA	2.6000	7735	9282	
RB	2.6818	7978	9574	
RC	2.7907	8302	9963	
RD	2.8810	8571	10285	

GEAR SET			Impeller RPM	
Compressor	Gear Code	Gear Ratio	50 hz	60 hz
			Motor RPM (constant speed)	
			2975	3570
P7, P8, P9 & H9	RE	2.9756	8852	10623
	RF	3.0500	9074	10889
	RG	3.1538	9383	11259
	RH	3.2368	9629	11555
	RI	3.3158	9865	11837
	RJ	3.4054	10131	12157
	RK	3.5000	10413	12495
	RL	3.6000	10710	12852
	RM	3.6857	10965	13158
	RN	3.7941	11287	13545
	RO	3.8788	11539	13847
	RP	3.9697	11810	14172
	RQ	4.0625	12086	14503
	RR	4.1563	12365	14838
	RS	4.2258	12572	15086
	RT	4.3226	12860	15432
	RU	4.4333	13189	15827
	RV	4.5000	13388	16065
	RW	4.5862	13644	16373
	RX	4.6897	13952	16742
RY	4.7857	14237	17085	
RZ	4.8571	14450	17340	
SA	4.9630	14765	17718	
SB	5.0370	14985	17982	
SC	5.1481	15316	18379	
SD	5.2308	15562	18674	
SE	5.3462	15905	19086	
SF	5.4000	16065	19278	
SG	5.5200	16422	19706	
SH	5.6000	16660	19992	

GEAR SET			Impeller RPM	
Compressor	Gear Code	Gear Ratio	50 hz	60 hz
			Motor RPM (constant speed)	
			2975	3570
K1 & K2	TA	1.2881	3832	4599
	TB	1.3276	3950	4740
	TC	1.3684	4071	4885
	TD	1.4107	4197	5036
	TE	1.4545	4327	5193
	TF	1.5000	4463	5355
	TG	1.5472	4603	5524
	TH	1.5962	4749	5698
	TJ	1.6471	4900	5880
	TK	1.6939	5039	6047
	TL	1.7500	5206	6248
	TM	1.7959	5343	6411
	TN	1.8542	5516	6619
	TP	1.9130	5691	6829
	TQ	1.9778	5884	7061
	TR	2.0444	6082	7299
	TS	2.0930	6227	7472
	TT	2.1628	6434	7721
	TU	2.2195	6603	7924
	TV	2.3000	6843	8211
TW	2.3750	7066	8479	
TX	2.4359	7247	8696	
TY	2.5128	7476	8971	

GEAR SET			Impeller RPM	
Compressor	Gear Code	Gear Ratio	50 hz	60 hz
			Motor RPM (constant speed)	
			2975	3570
K1 & K2	TZ	2.5946	7719	9263
	AD	2.6757	7960	9552
	AE	2.7714	8245	9894
	AF	2.8571	8500	10200
	FA	2.9210	8690	10428
	FB	3.0278	9008	10809
	FC	3.1111	9256	11107
	FD	3.2000	9520	11424
	FE	3.2941	9800	11760
	FF	3.3939	10097	12116
	FG	3.4848	10367	12441
	FH	3.5938	10692	12830
	FJ	3.7097	11036	13244
	FK	3.8333	11404	13685
	FL	3.9667	11801	14161
	FM	4.1034	12208	14649
	FN	4.2143	12538	15045
	FP	4.3334	12892	15470
	FQ	4.4815	13332	15999
	FR	4.6154	13731	16477
FS	4.7600	14161	16993	
FT	4.9200	14637	17564	
FU	5.0417	14999	17999	
FV	5.2083	15495	18594	
FW	5.3913	16039	19247	

GEAR SET			Impeller RPM	
Compressor	Gear Code	Gear Ratio	50 hz	60 hz
			Motor RPM (constant speed)	
			2975	3570
K3 & K4	PC	1.1558	3439	4126
	PD	1.1842	3523	4228
	PE	1.2267	3649	4379
	PF	1.2568	3739	4487
	PG	1.2877	3831	4597
	PH	1.3239	3939	4726
	PJ	1.3714	4080	4896
	PK	1.4203	4225	5070
	PL	1.4776	4396	5275
	PM	1.5303	4553	5463
	PN	1.5781	4695	5634
	PP	1.6349	4864	5837
	PQ	1.6935	5038	6046
	PR	1.7500	5206	6248
	PS	1.7966	5345	6414
	PT	1.8448	5488	6586
	PU	1.8947	5637	6764
	PV	1.9464	5791	6949
	PW	2.0000	5950	7140
	PX	2.0556	6115	7338
PY	2.1132	6287	7544	
PZ	2.1731	6465	7758	
EA	2.2353	6650	7980	

GEAR SET			Impeller RPM	
Compressor	Gear Code	Gear Ratio	50 hz	60 hz
			Motor RPM (constant speed)	
			2975	3570
K3 & K4	EB	2.3000	6843	8211
	EC	2.3673	7043	8451
	ED	2.4375	7252	8702
	EE	2.5106	7469	8963
	EF	2.5870	7696	9236
	EG	2.6667	7933	9520
	EH	2.7500	8181	9818
	EJ	2.8372	8441	10129
	EK	2.9286	8713	10455
	EL	3.0244	8998	10797
	EM	3.1250	9297	11156
	EN	3.2308	9612	11534
	EP	3.3421	9943	11931
	EQ	3.4324	10211	12254
	ER	3.5556	10578	12693
	ES	3.6857	10965	13158
	ET	3.7941	11287	13545
	EU	3.9118	11638	13965
	EV	4.0303	11990	14388
	EW	4.1250	12272	14726
EX	4.2581	12668	15201	
EY	4.3871	13052	15662	

GEAR SET			Impeller RPM	
Compressor	Gear Code	Gear Ratio	50 hz	60 hz
			Motor RPM (constant speed)	
			2975	3570
K7	MC	1.2	3437	4124
	MD	1.2	3539	4247
	ME	1.2	3654	4384
	MF	1.3	3772	4526
	MG	1.3	3895	4673
	MH	1.3	3967	4760
	MJ	1.4	4098	4917
	MK	1.4	4234	5080
	ML	1.5	4348	5218
	MM	1.5	4492	5390
	MN	1.6	4614	5537
	MP	1.6	4772	5727
	MQ	1.6	4896	5876
	MR	1.7	5064	6076
	MS	1.7	5174	6209
	MT	1.8	5355	6426
	MU	1.9	5544	6653
	MV	1.9	5680	6815
	MW	2.0	5879	7055
	MX	2.0	6021	7225
MY	2.1	6240	7488	
MZ	2.2	6396	7676	
AG	2.2	6560	7872	
AH	2.3	6789	8147	
AJ	2.3	6968	8361	
AK	2.4	7156	8587	
AL	2.5	7438	8925	
AM	2.6	7650	9180	
AN	2.7	7905	9486	

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