



American
Appliances
Inc.

R600a

1.3 、 R600a-LBP Technical Data Sheet

Model	Voltage(V)	Frequency (Hz)	Cooling Type	Displacement (cm ³)	Cooling Capacity(W)	COP (W/W)	Motor Type	Certification	Compressor Height (mm)
60 Hz Series									
HYE105MGU72	115-127~	60	ST	10.5	214	1.50	RSCR	UL/CSA	173.5
HYE90MGU72	115-127~	60	ST	8.9	175	1.47	RSCR	UL/CSA	173.5
HYE81MSU42	115~	60	ST	8.1	160	1.80	RSCR	UL/CSA	173.5
HYS69MKU42	115~	60	ST	6.9	140	1.65	RSCR	UL/CSA	159.5
HYE60MSU42	115~	60	ST	6.7	135	1.85*	RSCR	UL/CSA	173.5
HYS67MKU72	115-127~	60	ST	6.7	135	1.65	RSCR	UL	159.5
HYB60MHU42	115~	60	ST	6.0	118	1.40	RSIR	UL/CSA	153.6
HYB41Y72	115-127~	60	ST	4.1	125	1.30	RSIR	UL	153.6
HYE Series									
HYE81MHU	220-240~	50	ST	8.1	140	1.40	RSIR	CCC/VDE	167
HYE69MGU	220-240~	50	ST	7.2	128	1.62	RSCR	CCC/VDE	167
HYE81MGU	220-240~	50	ST	8.1	140	1.55	RSCR	CCC/VDE	173.5
HYE90MGU	220-240~	50	ST	8.9	152	1.55	RSCR	CCC	173.5
HYE60MKU	220-240~	50	ST	6.7	115	1.68	RSCR	CCC/VDE	167
HYE69MKU	220-240~	50	ST	7.2	125	1.68	RSCR	CCC/VDE	173.5
HYE81MKU	220-240~	50	ST	8.1	140	1.68	RSCR	CCC/VDE	173.5
HYE90MKU	220-240~	50	ST	8.9	152	1.68	RSCR	CCC/VDE	173.5
HYE96MKU	220-240~	50	ST	9.6	168	1.68	RSCR	CCC/VDE	173.5
HYE113MKU	220-240~	50	ST	11.3	200	1.68	RSCR	CCC	173.5
HYE55MTU	220-240~	50	ST	6.0	102	1.74	RSCR	CCC	173.5
HYE60MTU	220-240~	50	ST	6.7	115	1.78*	RSCR	CCC/VDE	173.5
HYE69MTU	220-240~	50	ST	7.2	125	1.78*	RSCR	CCC/VDE	173.5
HYE81MTU	220-240~	50	ST	8.1	140	1.78*	RSCR	CCC/VDE	173.5



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HYE90MTU	220-240~	50	ST	8.9	152	1.78*	RSCR	CCC/VDE	173.5
HYE96MTU	220-240~	50	ST	9.6	168	1.78*	RSCR	CCC/VDE	173.5
HYE55MSU	220-240~	50	ST	6.0	102	1.83*	RSCR	CCC/VDE	173.5
						1.88*	RSCR	CCC/VDE	173.5
HYE60MSU	220-240~	50	ST	6.7	117	1.85*	RSCR	CCC	173.5
						1.88*	RSCR	CCC/VDE	173.5
HYE69MSU	220-240~	50	ST	7.2	128	1.85*	RSCR	CCC/VDE	173.5
						1.88*	RSCR	CCC/VDE	173.5
HYE81MSU	220-240~	50	ST	8.1	142	1.85*	RSCR	CCC/VDE	173.5
HYE90MSU	220-240~	50	ST	8.9	152	1.85*	RSCR	CCC/VDE	173.5
HYE96MSU	220-240~	50	ST	9.6	168	1.85*	RSCR	CCC/VDE	173.5
HYE105MSU	220-240~	50	ST	10.5	186	1.85*	RSCR	CCC/VDE	173.5
HYE113MSU	220-240~	50	ST	11.3	200	1.85*	RSCR	CCC/VDE	173.5
HYE125MSU	220-240~	50	ST	12.3	218	1.85*	RSCR	CCC/VDE	173.5
HYE50MXU	220-240~	50	ST	5.5	95	1.93*	RSCR	CCC/VDE	173.5
HYE55MXU	220-240~	50	ST	6.0	102	1.93*	RSCR	CCC	173.5
HYE60MXU	220-240~	50	ST	6.7	115	1.93*	RSCR	CCC	173.5
HYE69MXU	220-240~	50	ST	7.2	128	1.93*	RSCR	CCC	173.5
HYE81MXU	220-240~	50	ST	8.1	142	1.93*	RSCR	CCC/VDE	173.5
HYE90MXU	220-240~	50	ST	8.9	152	1.93*	RSCR	CCC/VDE	173.5
HYE96MXU	220-240~	50	ST	9.6	168	1.93*	RSCR	CCC/VDE	173.5
HYE50MDU	220-240~	50	ST	5.5	98	2.00*	RSCR	CCC	173.5
					80 (#)	2.10* (#)	RSCR		

Model	Voltage(V)	Frequency (Hz)	Cooling Type	Displacement. (cm ³)	Cooling Capacity(W)	COP (W/W)	Motor Type	Certification	Compressor Height (mm)
HYE55MDU	220-240~	50	ST	6.0	108	2.00*	RSCR	CCC	173.5
					90 (#)	2.10* (#)	RSCR		
HYE60MDU	220-240~	50	ST	6.7	118	2.00*	RSCR	CCC	173.5
					100 (#)	2.10* (#)	RSCR		
HYE69MDU	220-240~	50	ST	7.2	127	1.98*	RSCR	CCC	173.5
HYE90MDU	220-240~	50	ST	8.9	152	1.98*	RSCR	CCC	173.5
HYE96MDU▲	220-240~	50	ST	9.6	170	1.98*	RSCR	CCC	173.5
HYE81MHUL	220-240~	50	ST	8.1	140	1.40	RSCR	CCC	169
					140	1.30	RSIR	CCC	169
HYE69MGUL	220-240~	50	ST	7.2	125	1.55	RSCR	CCC	169
HYE90MGUL▲	220-240~	50	ST	8.9	152	1.55	RSCR	CCC	173.5
HYE81MGUL	220-240~	50	ST	8.1	140	1.55	RSCR	CCC	173.5
HYE90MHUL	220-240~	50	ST	8.9	152	1.20	RSIR	CCC	173.5
HYE96MHUL	220-240~	50	ST	9.6	168	1.30	RSIR	CCC	173.5
HYE105MHUL	220-240~	50	ST	10.5	185	1.20	RSIR	CCC	173.5
HYE125MHUL	220-240~	50	ST	12.5	215	1.25	RSIR	CCC	173.5
HYE96MKUL▲	220-240~	50	ST	9.6	170	1.65	RSCR	CCC	173.5
HY Series									
HY113MKU	220-240~	50	ST	11.3	203	1.65	RSCR	CCC	187.5
HY113MTU	220-240~	50	ST	11.3	203	1.73	RSCR	CCC	187.5
HY131MKU	220-240~	50	ST	13.1	235	1.65	RSCR	CCC	187.5
HY153MKU	220-240~	50	ST	15.3	270	1.65	RSCR	CCC	193
HY131MTU	220-240~	50	ST	13.1	235	1.75	RSCR	CCC	193



Model	Voltage(V)	Frequency (Hz)	Cooling Type	Displacement. (cm ³)	Cooling Capacity(W)	COP (W/W)	Motor Type	Certification
HY153MTU	220-240~	50	ST	15.3	270	1.72	RSCR	CCC 193
HY113MSU	220-240~	50	ST	11.3	205	1.85	RSCR	CCC 193
HY131MSU	220-240~	50	ST	13.1	240	1.85	RSCR	CCC 193
HY153MSU	220-240~	50	ST	15.3	272	1.80	RSCR	CCC 193
HY113MXU	220-240~	50	ST	11.3	208	1.90*	RSCR	CCC 193
HY131MXU	220-240~	50	ST	13.1	245	1.90*	RSCR	CCC 193
HYB Series								
HYB60MHU	220-240~	50	ST	6.0	100	1.45	RSIR	CCC/VDE 153.6
HYB60MHUL	220-240~	50	ST	6.0	100	1.45	RSIR	CCC/VDE 153.6
HYB60MGU	220-240~	50	ST	6.0	100	1.55	RSCR	CCC 153.6
	220-240~	50	ST	6.0	100	1.49	RSIR	CCC 153.6
HYB60MGUL	220-240~	50	ST	6.0	100	1.55	RSCR	CCC 153.6
HYB60MKU	220-240~	50	ST	6.0	100	1.65	RSCR	CCC 153.6
HYS Series								
HYS60MKUL	220-240~	50	ST	6.0	100	1.65	RSCR	CCC 153
HYS69MHUL	220-240~	50	ST	6.9	120	1.25	RSIR	CCC 153
HYS60MTUL	220-240~	50	ST	6.0	100	1.72	RSCR	CCC 159.5
HYS69MTUL	220-240~	50	ST	6.9	120	1.72	RSIR	CCC 159.5
HYS69MGU	220-240~	50	ST	6.9	120	1.60	RSCR	CCC 153
HYS69MGUL	220-240~	50	ST	6.9	120	1.55	RSCR	CCC 153
HYS69MKU	220-240~	50	ST	6.9	120	1.65	RSCR	CCC 153
HYS69MKUL	220-240~	50	ST	6.9	120	1.65	RSCR	CCC 153
HYS81MKU	220-240~	50	ST	8.1	138	1.65	RSCR	CCC 153
HYS81MKUL▲	220-240~	50	ST	8.1	138	1.65	RSCR	CCC 159.5

Model	Voltage(V)	Frequency (Hz)	Cooling Type		Displacement. (cm ³)	Cooling Capacity(W)	COP (W/W)	Motor Type	Certification
HYS55MTU	220-240~	50	ST	5.5	92	1.74	RSCR	CCC	159.5
HYS60MTU	220-240~	50	ST	6.0	100	1.74	RSCR	CCC/VDE	159.5
HYS69MTU	220-240~	50	ST	6.9	120	1.72	RSCR	CCC	159.5
HYS81MTU	220-240~	50	ST	8.1	138	1.72	RSCR	CCC	159.5
HYS55MSU	220-240~	50	ST	5.5	93	1.83*	RSCR	CCC	159.5
HYS60MSU	220-240~	50	ST	6.0	100	1.83*	RSCR	CCC/VDE	159.5
HYS69MSU	220-240~	50	ST	6.9	120	1.83*	RSCR	CCC/VDE	159.5
HYS55MXU	220-240~	50	ST	5.5	93	1.88*	RSCR	CCC	159.5
HYS60MXU	220-240~	50	ST	6.0	100	1.88*	RSCR	CCC	159.5
HYS69MXU	220-240~	50	ST	6.9	120	1.88*	RSCR	CCC	159.5

Note: 1、 * with E-PTC; 2、 “#”→working condition:-28°C/40°C; 3、 “▲”are being-developed.

Working condition limit :R600a

Max ambient temperature	43[°C]
Evaporation temperature range	-35~-15[°C]
Working voltage range.	187~254[V]
Max discharge pressure	0.98[Mpa] (gauge pressure)
Max allowable housing temperature	95[°C]
Max discharge temp.	110[°C]
max pressure housing endured	2.4 [Mpa] (gauge pressure)
Low voltage start	0.2/0.2Mpa(gauge pressure) 187V

Test conditions

According to ASHRAE

Evaporating temperature	-23.3°C
Condensing temperature	54.4°C
Subcooling temperature	32.2°C
Suction temperature	32.2°C
Ambient temperature	32.2°C