

2016 SAMSUNG SYSTEM AIR CONDITIONER

DVM Chiller Brochure





DVM CHILLER

The Best Energy Efficiency

IPLV 20.5

MAXIMUM CAPACITY MODULE 240 TONS

With combination of 16 single units of 10, 15 tons, maximum 240 tons can be covered. In this case, compared to conventional water chillers, 49% of installation space can be saved.



EFFICIENT OPERATION

Samsung DVM Chiller enables users to reduce annual utility costs compared to traditional chillers, while the operational modes can be adjusted to allow for seasonal requirements.



SPECIFICATION

DVM Chiller				AG010KSVAFH/AA	AG015KSVAFH/AA	AG010KSVAJH/AA	AG015KSVAJH/AA
Model Name				AG010KSVAFH/AA	AG015KSVAFH/AA	AG010KSVAJH/AA	AG015KSVAJH/AA
Power Supply				Φ, #, V, Hz	3,3,208~230,60	3,3,208~230,60	3,3,460,60
Performance	HP			HP	12	18	12
	Ton (Nominal)			usRT	10	15	10
Capacity (Rated)	Cooling			kW	35.2	50.1	35.2
				kBtu/h	120.0	171.0	120.0
	Heating	Dry/Wet Bulb 47/43°F	leaving Temp. 105°F	kW	37.5	53.3	37.5
			leaving Temp. 120°F	kW	35.2	50.1	35.2
		Dry/Wet Bulb 17/15°F	leaving Temp. 105°F	kBtu/h	128.0	182.0	128.0
			leaving Temp. 120°F	kBtu/h	120.0	171.0	120.0
				kW	24.6	26.4	24.6
				kBtu/h	84.0	90.0	84.0
			kW	23.4	24.9	23.4	
			kBtu/h	80.0	85.0	80.0	
Power	Power Input			Cooling	10.71	17.10	10.71
	Heating	Dry/Wet Bulb 47/43°F	leaving Temp. 105°F	kW	9.77	15.17	9.77
			leaving Temp. 120°F	kW	11.54	17.45	11.54
		Dry/Wet Bulb 17/15°F	leaving Temp. 105°F	kW	11.20	12.00	11.20
			leaving Temp. 120°F	kW	12.70	13.08	12.70
	Current Input			Cooling	29.59	47.24	15.81
	Heating	Dry/Wet Bulb 47/43°F	leaving Temp. 105°F	A	26.99	41.91	14.43
			leaving Temp. 120°F	A	31.88	48.20	17.04
		Dry/Wet Bulb 17/15°F	leaving Temp. 105°F	A	30.94	33.15	16.54
			leaving Temp. 120°F	A	35.08	36.13	18.75
	MCA			A	52.00	70.00	24.00
	MFA (MOP)			A	70.00	90.00	30.00
COP	Nominal Cooling			W/W	3.28	2.93	3.28
				(Btu/h)/W	11.20	10.00	11.20
	Normal Heating	Dry/Wet Bulb 47/43°F	leaving Temp. 105°F	W/W	3.84	3.52	3.84
			leaving Temp. 120°F	(Btu/h)/W	13.10	12.00	13.10
		Dry/Wet Bulb 17/15°F	leaving Temp. 105°F	W/W	3.05	2.87	3.05
			leaving Temp. 120°F	(Btu/h)/W	10.40	9.80	10.40
	Normal Heating	Dry/Wet Bulb 47/43°F	leaving Temp. 105°F	W/W	2.20	2.20	2.20
			leaving Temp. 120°F	(Btu/h)/W	7.50	7.50	7.50
Dry/Wet Bulb 17/15°F		leaving Temp. 105°F	W/W	1.85	1.90	1.85	
		leaving Temp. 120°F	(Btu/h)/W	6.30	6.50	6.30	
Efficiency			ESEER, IPLV	W/W	20.5	18.8	
Compressor	Type			-	Scroll Inverter	Scroll Inverter	
	Output			kW × n	6.45x2	6.45x2	
	Model Name			-	DS4GJ5066EVA	DS4GJ5066EVA	
	Oil			Type	PVE	PVE	
Fan	Type			-	Propeller	Propeller	
	Input x n			kW	-	-	
	Output x n			W	630 x 2	630 x 2	
	Air Flow Rate			CMM	364 (182 x 2)	364 (182 x 2)	
	External Static Pressure			Max.	mmAq	8.0	
Water Side Heat Exchanger	Type			-	Brazing Plate	Brazing Plate	
	Water Flow(Cooling/Heating)			LPM	90.9	129.5	
	Pressure Drop			kPa	37	70	
	Max OperationgPressure			MPa	1.0	1.0	
	Connection Type			-	50A Cut Groove	50A Cut Groove	
	Pipe(Inlet/Outlet)			A	50	50	
	Q'Ty			EA	2	2	
Refrigerant	Type			-	R410A	R410A	
	Factory Charging			lbs	40	40	
Sound	Sound Pressure			dB(A)	60	62	
	Net Weight			lbs	1,019	994	
External Dimension	Shipping Weight			lbs	1,067	1,043	
	Net Dimensions (WxHxD)			mm	1795x1685x765	1795x1685x765	
	Shipping Dimensions (WxHxD)			mm	1,900x1,887x919	1,900x1,887x919	
	Shipping Dimensions (WxHxD)			mm	1,900x1,887x919	1,900x1,887x919	
Operating Water Temp. Range	Cooling			°F	41~77°F(Brine, 14~77°F)	41~77°F(Brine, 14~77°F)	
	Heating			°F	77~131	77~131	
Operating Amb. Temp.	Cooling			°F	5~118	5~118	
	Heating			°F	-13~109	-13~109	

* Certified efficiency data in accordance with AHRI Standard 550/590

* Specification may be changed without further notification