



 MARSHAL®

CHILLER SWIMMING POOL

COOL & HEAT PUMP

Cooling Capacity 13-50kW

Heating Capacity 15-55kW

5CPAAS - 50Hz/60Hz

R410A



EBA



SWIMMING POOL CHILLER

Salient Features

- Water exchanger – Titanium of class Gr2 ASTM B338 with surface up to 1.4m² pressure drop max 5kPA
- 4-Way reversible valve
- Controller
- Propeller fan with fan guards
- Coil guards
- Temperature based control of heat pump
- Safety systems
- Anti-corrosive coating

Controller's Salient Features

- Applicable to air cooled chiller & Heat pump chiller applications with 1 ~ 2 Compressors
- Auto defrost mode
- Compressor controls and load balancing (loading & unloading cycle)
- Error indicator (Standard feature to connect with external indicator)
- External internal lock for start / stop
- Independent temperature setting for cool and heat mode respectively
- System parameter setting are password protected for different levels operations
- Real Time Clock ; Individual 7 days timer (2 sets per day)
- Flow switch input for system protection
- Individual coil temperature for defrost operation
- Key lock function
- Master / Slave control
- Mode of Operation – Heat mode; Cool mode
- Multi error code read out
- Nonvolatile memory to keep the system setting
- Parameter check for compressor status,
- Real time Entering / leaving water temperature
- Start / stop the unit from controller
- System entering / leaving water temperature sensor

Installed In

- Swimming Pools
- Spas
- Hotel & Wellness
- Hot tubs & Jacuzzis

TECHNICAL SPECIFICATIONS

Description	Unit of measurement	Engineering Specifications Swimming Pool Chiller - Top Discharge					
		5CPA015-AS	5CPA012-AS	5CPA009-AS	5CPA007-AS	5SPA007-AS	5SPA004-AS
Unit Type	----	Compact	Compact	Compact	Compact	Split	Split
Nominal Cooling Capacity @ 35°C	kW	50	41	30	22	22	13
Power Consumption @ T ₁	kW	17.4	12.9	11.0	8.0	8.0	5.8
Nominal Cooling Capacity @ T ₃	kW	42	31	26	19	19	12
Power Consumption @ T ₃	kW	22.2	14.1	12.0	10.0	10.0	7.3
Heating Capacity @ 15°C ambient	kW	55	45	33	24	24	15
Power Consumption @ H ₁	kW	19.2	14.2	12.0	8.8	8.8	6.3
Recommended Swimming Pool Volume (with cover/without cover)	m ³	255/165	200/130	150/90	120/80	120/80	75/50
Recommended Water Flow Rate	m ³ /hr	~ 13	~ 11	~ 8	~ 6	~ 6	~ 4
Compressor	Power supply	380V/3Ph/50Hz-60Hz					
	Type	Fully Hermetic Scroll					
	Quantity	2	2	1	1	1	1
	Protection	Internal					
Condenser Fan	Type	Propeller Direct Drive					
	Size (Dia)/Qty	EBM 630/2 nos	26"/ 2 nos	26"/ 2 nos	26"/ 1 no	22" / 1 no	
Condenser Motor	Type	Class F & IP55 protection	Class F & IP44 protection		Class F & IP44 protection		Class B & IP44 protection
	Power supply	380V/3Ph/50Hz-60Hz					
	Size/Qty	2 HP/2 nos	½ HP/2 nos		½ HP/1 no		½ HP/1 no
Condenser Coil	Coil Type	Air cooled coil with ¾" dia Inner Grooved Copper tube & Corrugated Aluminium fins					
	Rows/FPI	2 or 3 number of rows with 16FPI or 14FPI fin spacing					
Number of Refrigeration Circuits	nos	2	2	1	1	1	1
Water Circuit Connection	----	63mm flange	63mm flange	63mm Internal thread	50mm Internal thread	50mm Internal thread	26mm IN & 28mm OUT
Unit Dimensions (LxWxH)	mm	2208 x 1204 x 1742	2208 x 1204 x 1512		1460 x 1204 x 1512	970 x 896 x 995	850 x 768 x 768

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* Certification varies from one product to another



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