MICROWELL

MAX COMMERCIAL
SWIMMING POOL HEAT PUMP
for aquaparks, hotel and public pools

The new generation of commerical swimming pool heat pumps

- Built for heavy-duty heating and cooling.
- Salt and chlorine water compatible.
- Backed by 15 years of proven expertise.
- Hassle-free installation and maintenance.

50-60Hz Compatible

T1-T3 Panasonic compressors

3 year warranty

16units cascade

-10℃~55℃ ambient

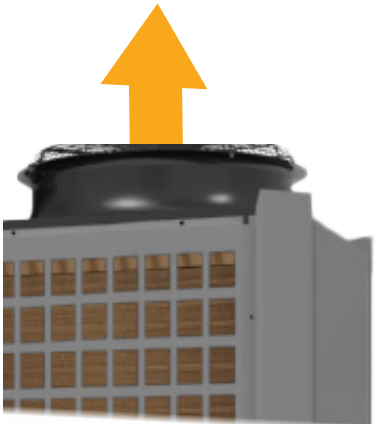
Heating & cooling

Wi-Fi Built-in

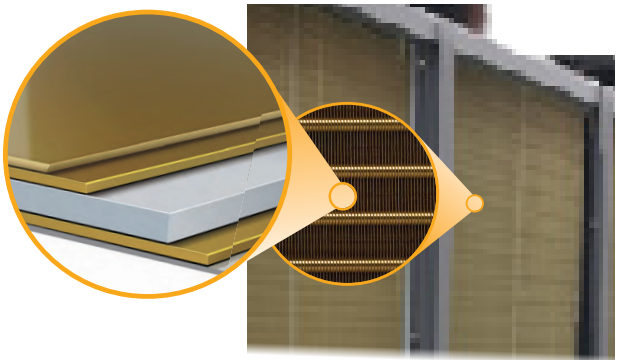
Main Features:

Commercial Microwell MAX / iMAX air source swimming pool heat pump is designed for heavy duty heating and cooling pool jobs in 4 season environment as well as in tropical conditions.

- Designed for EUROPEAN WEATHER from -10°C to +43°C and for MIDDLE EAST WEATHER 0°C to +55°C
- Durable metal design with multiple compressor system
- **Titanium Grade1** ASTM B265M used inside water heat exchangers designed to work fresh, salt or chlorine water
- Vertical fan discharge for ideal placement in noise damping chambers
- GoldFin hydrophobic epoxy protection of the fins against sea wind, sand, dust and effective de-icing
- Automatic overheat control to ensure heating and cooling in peak day time hot weather
- Automatic defrost to ensure heating operations during winter time
- Wide heating capacity with 50kW to 450kW provided by a single unit
- Primary phase monitor protection against incorrect order of the phases or missing phase
- T1/T3 Panasonic compressors with built-in automatic control logic for more energy saving
- Multiple fan speed mode to support low noise
- Electronic expansion valve for more precise refrigerant flow for maximum COP and kW at each weather condition
- Centralized control of up to 16 heat pumps (BMS)
- WIFI control compatible



Vertical discharge



GoldFin
epoxid aluminium 100%
corrosion free

Panasonic

MAX traditional ON/OFF

MAX 50 - 125

MAX 150 - 350

MAX 450

Model MAX		50	60	75	100	125	150	250	300	375	450
Compressor type		On-Off									
Power Supply	V/PH/Hz	380/3/50-60									
Heating Capacity(A27W26)	kW	50	60,0	75,0	100,0	125	150	250	300	375	450
	BTU/h	170.600	204.800	255.900	341.200	426.500	511.800	853.000	1.023.600	1.279.466	1.535.400
COP (A27W26)		6	5,87	5,87	5,87	5.9	5.9	5.9	5.9	5.9	5.9
Input Power (A27W26)	kW	9	10,22	12,78	17,04	21	26	43	51	64	77
Input Current (A27W26)	A	16	19,4	24,3	32,4	40	49	81	97	11	146
Heating Capacity(A15W26)	kW	35	42,0	52,5	70,0	88	105	175	210	262	315
	BTU/h	119.500	143.400	179.200	238.900	298.600	358.260	597.100	716.520	895.626	1.074.780
Input Current (A15W26)	A	15	17	22	29	36	43	72	87	108	130
Cooling Capacity(A46W30)	kW	30	36	45	59	75	90	150	180	225	270
	BTU/h	101.455	121.746	152.183	202.910	253.638	245.700	409.500	511.800	614.234	737.100
EER (A46W30)		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Input Power cooling (A46W30)	kW	10	12	15,00	20,00	25	30	50	60	75	90
Input Current cooling (A46W30)	A	19	23	29	38	47	57	95	114	142	171
Compressor type		Scroll									
Compressor Qty		2	2	2	2	2	2	4	4	6	6
Fan Qty		2	2	2	2	2	2	2	2	6	6
Noise	dB(A)	60	62	62	65	65	65	65	70	75	80
Water Flow Volume	m3/h	12	15	18	24	30	36	60	72	84	108
Water Pressure Drop	kpa	30	45	45	45	45	45	45	45	45	45
Fan Direction		vertical									
Refrigerant Type		R410A/R407C									
Unit Net Dimensions (L/W/H)	mm	1354x651x1224	1504x861x1224	1654x861x1324	1858x938x1204	2050X1065X2010	2119x1068x2019	2250x1138x2360	2250x1138x2360	3800x1400x2516	3020x2220x2267
Unit Shipping Dimensions (L/W/H)	mm	1454x751x1424	1604x961x1424	1754x961x1524	1958x1038x1404	2150x1165x2210	2219x1168x2219	2330x1158x2560	2350x1238x2560	3900x1500x2716	3120x2320x2467
40 Feet container quantity		16	16	12	10	10	10	5	5	3	3
Operating ambient temperature		(-10°C ~ +43°C) / (0°C+55°C)									

The manufacturer reserves the right to alter the technical data without prior notice.

Remarks: * The data above is only for reference. For specific data, please refer to the nameplate on the unit.

iMax variable speed inverter

HP Inverter Technology

iMAX 50 - 125

iMAX 150 - 350

iMAX 450

Model iMAX		50	60	75	100	125	150	250	300	350	450
Compressor type		Inverter									
Power Supply	V/PH/Hz	380/3/50-60									
Heating Capacity(A27W26)	kW	8.4~54	10.5~62.4	12.6~76.8	16.8~105	21~130	25.2~165	42~275	50.4~316	63~385	75.6~473
COP (A27W26)		6.15~16.11	6.15~16.11	6.15~16.11	6.15~16.11	6.15~16.11	6.15~16.11	6.15~16.11	6.15~16.11	6.15~16.11	6.15~16.11
Input Power (A27W26)	kW	0.52~8.6	0.65~9.6	0.78~13.00	1.04~17.1	1.3~21.00	1.56~26.82	2.6~44.7	3.12~50.64	3.9~64.05	4.68~76.8
Heating Capacity(A15W26)	kW	6.41~38.4	8.02~48	9.62~57	12.84~76	16.05~96	19.23~120	32.05~200	38.46~230	48.075~279	57.69~345
Input Power (A15W26)	A	1.27~3.8	1.59~4.73	1.91~5.6	2.59~15.16	3.24~19.2	3.81~11.85	6.35~19.75	7.62~22	9.525~26.625	11.43~33.6
Cooling Capacity(A46W30)	kW	10.17~26.88	12.72~33	15.26~40	20.36~53	25.5~67.2	76.5~210	127.5~350	153~161	191.25~195	229.5~252
EER (A46W30)		4.15~5.13	4.15~5.13	4.15~5.13	4.15~5.13	4.15~5.13	4.15~5.13	4.15~5.13	4.15~5.13	4.15~5.13	4.15~5.13
Input Power cooling (A46W30)	kW	1.95~471	2.43~5.88	2.92~7.06	3.93~12.49	4.93~15.36	14.79~50.58	24.65~84.3	29.58~96.16	36.975~117.45	44.37~144
Compressor type		DC Inverter									
Compressor Qty		1	1	1	2	2	2	4	4	4	6
Fan Qty		2	2	1	1	1	2	2	2	2	3
Noise 1m	dB(A)	58	58	60	65	65	65	65	70	70	75
Water Flow Volume	m3/h	12	14	18	24	30	36	60	72	90	108
Water Pressure Drop	kpa	30	45	45	45	45	45	45	45	45	45
Fan Direction		vertical									
Refrigerant Type		R410A/R407C									
Unit Net Dimensions (L/W/H)	mm	1168x455x1560	1168x455x1560	940x1040x1950	1070x1200x2020	1070x1200x2020	2050x1065x2057	2050x1065x2212	2250x1138x2360	2250x1138x2360	3000x1400x2516
Unit Shipping Dimensions (L/W/H)	mm	1268x555x1760	1268x555x1760	1040x1140x2150	1170x1300x2220	1170x1300x2220	2150x1165x2257	2150x1165x2412	2350x1238x2560	2350x1238x2560	3100x1500x2716
40 Feet container quantity		16	16	12	10	10	10	5	5	3	3
Operating ambient temperature		(-10°C ~ +43°C) / (0°C+55°C)									

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MICROWELL

Real applications

We are flexible in design and can provide unit as per your request. For example we can alter standard series height and reduce it as per your demand.

Units are made with utmost care. They are fully tested for performance not only in lab conditions but also in real life.

We can provide full documentation (e.g. manual, quick start--up guide, Modbus protocol, technical drawings, visuals, etc.)