



**air**conditioning**systems**

a breath of **mistralblue**,  
a lifetime voyage...





## about us...

Argos is your global boutique system partner, combining the market and product experience of 20 years past in the leisure and commercial marine air conditioning sector, is established in Izmir Turkey.

Advantage of our design and market experience in the field at the existing stage, you will notice our disputed product quality and price strength on our air conditioning systems. In the coming pages, you will find out more on our products range of chilled water systems, fan coil units and other products. Besides, our flexibility about manufacturing custom applications, we believe our global partners will have more confidence in their local activities.

Our goal is to keep our dynamic and practical R&D solutions alive all the time and having long term partnerships in all markets, carrying our reputation to the future by Mistral Blue comfort of Argos.

At all times, our principal of a trustworthy relationship is the main reason of our expanded business with all mistral blue hearted partners. We hope your first mistral blue feeling turns out to a lifetime cool voyage together.

## Fields of ARGOS HVAC Systems

### LEISURE BOATS



SUPERYACHT



MOTORYACHT



CATAMARAN



SAILBOAT



SPEEDBOAT



POWER BOAT

### NAVY / ARMY VESSELS



COAST GUARD



PATROL BOAT



AMBULANCE

## Fields of ARGOS HVAC Systems

### COMMERCIAL VESSELS



TUGBOAT



PILOTBOAT



CRUISE SHIP



RIVER CRUISE



PASSENGER BOAT



FERRY



CRANE BARGE



RESEARCH VESSELS



OFFSHORE PLATFORM



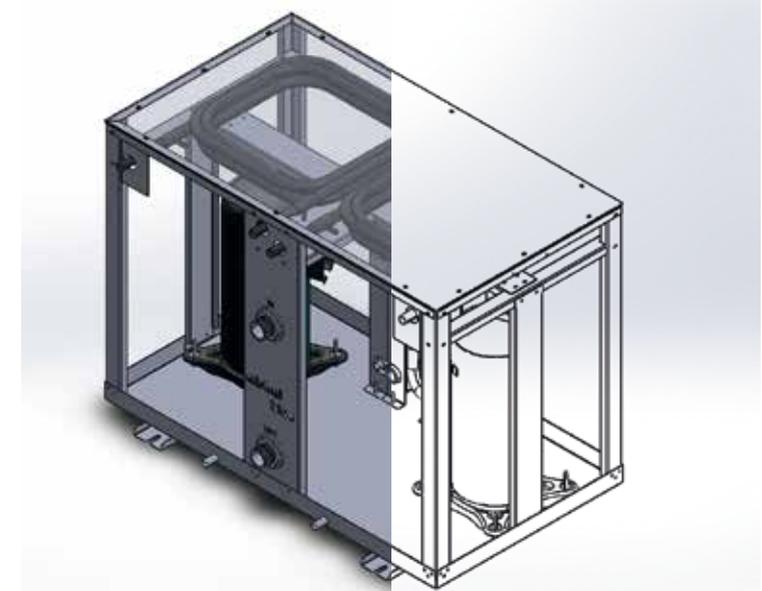
POWERSHIP

# CHILLER

Mistral Blue chilled water units, main part of the central a/c systems of ships, are designed to provide hot or cold water for cooling and heating demands. Digitally controlled Mistral Blue chillers by intelligent programmable MCX control systems of Danfoss ensures, high performance, low energy consumption and long safe operation on board. Integration to management systems is never been easier by the help of the Danfoss technology.

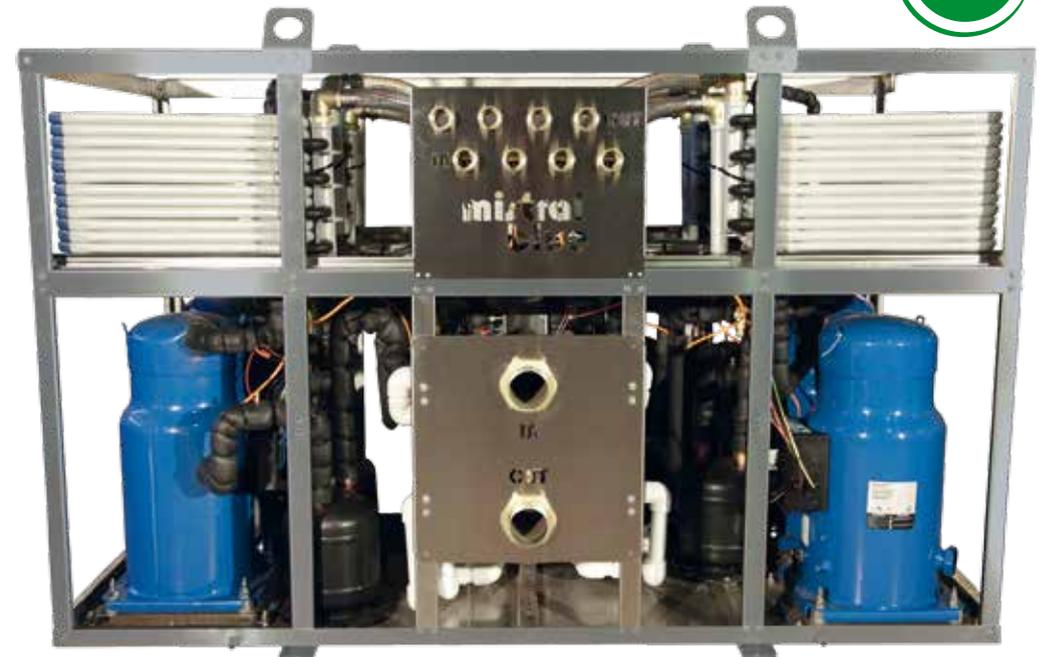
Excellent resistance by 304 class chrome fittings and structure, 90/10 Cu-Ni condenser and 316 class plate type heat exchangers, your Mistral Blue unit has long life with high resistance to seawater and environment. Units are designed as single modules and higher capacity requirements can be obtained by the connection of the modules to each other, therefore 600,000 btu/h or higher capacities can be obtained easily. Modular system enables easy transportation and continuous operation during the service of any module, besides easy access to all components. Single chassis design is also available on demand.

Inverter version of AWC series chillers provide capacity control by modulating system. This requires lower start up current and economizing the power consumption. Therefore, please ask for inverter version of AWC chillers for subject solutions.



ABBREVIATION							
AWC	24	-	1	1	2	5	C
ARGOS WATER CHILLER	NOMINAL CAPACITY KBTU/H	-	COMPRESSOR # (1) (2) (3) (4)	"MONOPHASE (1) TRIPHASE (3)"	"230 V (1) 380 V - 440V (3)"	"50 Hz (5) - 60 Hz (6) Inverter (0)"	"ONLY COOLING (C) REVERSE CYCLE (R)"

AWC SERIES (SINGLE COMPRESSOR)							
Model no/ Family Name		AWC024	AWC030	AWC036	AWC048	AWC060	AWC072
Cooling Capacity	Btu/h	24,000	30,000	36,000	48,000	60,000	72,000
Cooling Capacity	kW	7	9	11	14	18	21
Voltage-Phase	V	230V - 1Ph / 400V - 3Ph					
Frequency*	Hz	50/60					
Refrigerant		R410a					
Seawater Connection Size	inch	3/4"	3/4"	3/4"	1 1/4"	1 1/2"	1 1/2"
Minimum Seawater Flow	lt/min	20	22	24	32	40	48
Chilled Water Connection Size	inch	1"	1"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
Chilled Water Flow	lt/min	22	25	30	38	50	60
Model no/ Family Name for given Current Values		AWC024-1125R	AWC030-1125R	AWC036-1125R	AWC048-1335R	AWC060-1335R	AWC072-1335R
Operating Current	A	9	11,5	12,5	15	16	21
Start-up Current	A	36	66	74	75	95	111
Dimensions	Length (mm)	485	485	485	650	650	650
	Width (mm)	325	325	325	450	450	450
	Height (mm)	450	450	450	600	600	625
Drainage Pipe Dia	inch (mm)	5/8" (16)					



\*AWC600 - 4335C

AWC SERIES (TWO COMPRESSORS)							
Model no/ Family Name		AWC048	AWC060	AWC072	AWC096	AWC120	AWC144
Cooling Capacity	Btu/h	48,000	60,000	72,000	96,000	120,000	144,000
Cooling Capacity	kW	14	18	21	28	35	42
Voltage-Phase	V	230V - 1Ph / 400V - 3Ph					
Frequency*	Hz	50/60					
Refrigerant		R410a					
Seawater Connection Size	inch	3/4" X 2	3/4" X 2	3/4" X 2	1 1/4" X 2	1 1/2" X 2	1 1/2" X 2
Minimum Seawater Flow	lt/min	35	45	55	70	95	110
Chilled Water Connection Size	inch	1 1/4"	1 1/2"	1 1/2"	2"	2"	2"
Chilled Water Flow	lt/min	40	50	60	80	100	120
Model no/ Family Name for given Current Values		AWC048-2125R	AWC060-2125R	AWC072-2125R	AWC096-2335R	AWC120-2335R	AWC144-2335R
Operating Current	A	17	22	26	12	15	23
Start-up Current	A	40	55	57	50	56	77
Dimensions	Lenght (mm)	850	850	850	1000	1000	1000
	Width (mm)	500	500	500	500	550	550
	Height (mm)	655	655	655	655	700	700
Drainage Pipe Dia	inch (mm)	5/8" (16) X2					

AWC SERIES (THREE / FOUR COMPRESSORS)							
Model no/ Family Name		AWC180	AWC216	AWC288	AWC360	AWC480	AWC600
Cooling Capacity	Btu/h	180,000	216,000	288,000	360,000	480,000	600,000
Cooling Capacity	kW	53	64	85	105	140	175
Voltage-Phase	V	400V - 3Ph					
Frequency*	Hz	50/60					
Refrigerant		R410a					
Seawater Connection Size	mm (inch)	1 1/2" X 3	1 1/2" X 3	1 1/2" X 4	2" X 4	2" X 4	2" X 4
Minimum Seawater Flow	lt/min	125	155	205	255	340	425
Chilled Water Connection Size	mm (inch)	2 1/2"	2 1/2"	2 1/2"	3"	4"	4"
Chilled Water Flow	lt/min	150	180	240	300	400	500
Model no/ Family Name for given Current Values		AWC180-3335C	AWC216-3335C	AWC288-4335C	AWC360-4335C	AWC480-4335C	AWC600-4335C
Operating Current	A	25	36	48	60	74	88
Start-up Current	A	70	96	108	135	165	200
Dimensions	Lenght (mm)	1500	1500	1800	2000	2000	2000
	Width (mm)	750	750	1000	1000	1000	1000
	Height (mm)	1300	1300	1300	1500	1500	1500
Drainage Pipe Dia	inch (mm)	5/8" (16) X3					



### FEATURES

- Central a/c unit for multi rooms for heating or cooling,
- By modular system, easy access to all components and continuous operation during service,
- Reverse cycle as standard,
- High resistance against seawater and environment,
- User friendly operation and control on board,
- Lower start up current and economizing power consumption by inverter AWC chiller versions.

### AWC BOX INCLUDES

- R410a charged chiller with all necessary components for standalone operation,
- Danfoss MCX series digital control unit,
- Fully equipped electrical control board,
- Power supply and control for chilled water and seawater pump.

### OPTIONAL ACCESSORIES

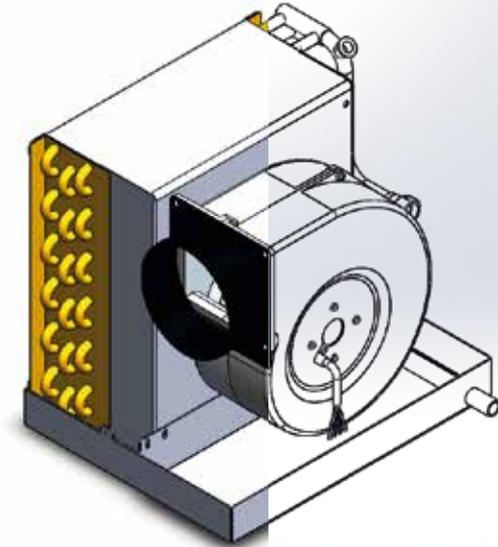
- Remote Control display,
- Flow switch,
- Seawater pump, chilled water pump,
- Seawater regulation valve,
- Installation kit.



## FAN COIL

Mistral Blue fan coil units are designed for both cooling or heating of areas by operating together with Mistral Blue chiller units. As a central air conditioning system, chilled or hot water circulates in the fan coil units installed in each room on the boat and provides heating or cooling according to your demand.

Your Mistral Blue fan coil unit is able to control each room installed individually by the help of digital controller. For energy saving, 2 or 3-way valves can be installed on Mistral Blue fan coil units easily, additional features such as electrical heater, over-flow switch etc. can also be installed without requiring additional modifications. By an excellent sound level and low-profile design, less space he gets, long-lasting Mistral Blue comfort he provides. Moreover, 90 °C rotating fan housing of your Mistral Blue AFC units can be adapted to this less space easily. AFC series fan coil units have 8 capacity ranges from 5,000 btu/h up to 24,000 btu with the best fit to your required cooling capacity. Therefore, you will be at the right atmosphere where you need to be just by your finger touches.



### FEATURES

- Excellently quite sound level,
- Comfort of wide control panel options,
- Optional 2 or 3-way valve, easy installation of valve on AFC series,
- Electrical heater, over-flow switch etc. as an option,
- Requires less space in the conditioned room,
- Individual control for each conditioned room.

### AFC BOX INCLUDES

- Fan coil unit,
- Air outlet adaptor,
- Base fixing parts.

### OPTIONAL ACCESSORIES

- AG02 digital control unit,
- 3-way valve,
- Electrical Heater,
- Over-flow switch,
- Return and supply air grills,
- Air ducts and clamps.

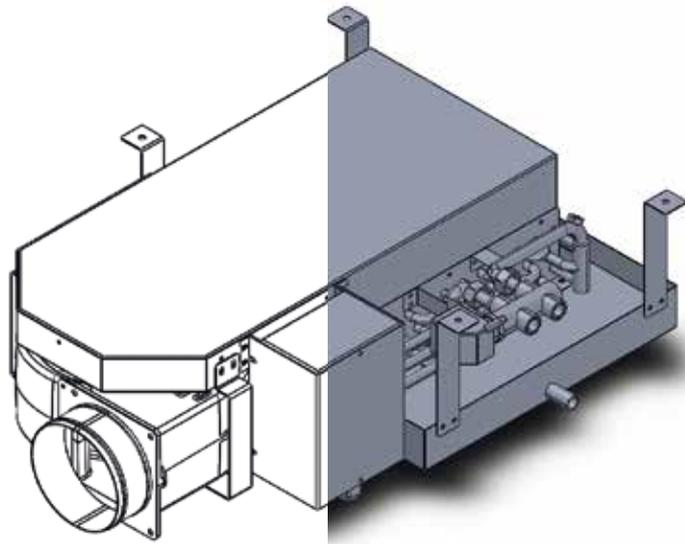


### AG02 CONTROL UNIT



Model No/Name		AFC05	AFC08	AFC10	AFC12	AFC16	AFC18	AFC21	AFC24
Cooling Capacity	Btu/h	5,000	8,000	10,000	12,000	16,000	18,000	21,000	24,000
Cooling Capacity	kW	1,46	2,34	2,93	3,51	4,69	5,27	6,15	7,03
Fan Motor Power	W	105	105	240	240	400	400	400	355
Operation Current (FLA)	A	0,5	0,5	1,1	1,1	1,75	1,75	1,75	1,6
Duct Diameter	mm	100	100	125	125	125	150	150	180
Air Flow	m3/h	275	325	430	550	580	675	775	875
Dimensions	Length (mm)	330	330	340	340	420	420	455	455
	Width (mm)	250	270	270	270	288	288	295	320+125
	Height (mm)	270	270	320	320	320	320	345	345
Net Weight	Kg	10	10	12,5	12,5	16,5	16,5	19	19

## FAN COIL / Slimline



Mistral Blue Slimline fan coil units are designed for narrow spaces, for both horizontal or vertical installation. As a central air conditioning system, chilled or hot water circulates in the fan coil units installed in each room on the boat and provides heating or cooling according to your demand.

Your Mistral Blue fan coil unit is able to control each room installed individually by the help of digital controller. For energy saving, 2 or 3-way valves can be installed on Mistral Blue fan coil units easily, additional features such as electrical heater, over-flow switch etc. can also be installed without requiring additional modifications. By an excellent sound level and narrow design, less space he gets, long-lasting Mistral Blue comfort he provides. Moreover, 180 °C rotating fan housing of your MB AFS unit can be adapted to this less space easily.

AFS series slimline fan coil units have 8 capacity ranges from 5,000 btu/h up to 24,000 btu/h with the best fit to your required cooling capacity. Therefore, you will be at the right atmosphere where you need to be just by your finger touches.

Model No/Name		AFS05	AFS08	AFS10	AFS12	AFS16	AFS18	AFS21	AFS24
Cooling Capacity	Btu/h	5,000	8,000	10,000	12,000	16,000	18,000	21,000	24,000
Cooling Capacity	kW	1,46	2,34	2,93	3,51	4,69	5,27	6,15	7,03
Fan Motor Power	W	105	105	240	240	400	400	400	355
Operation Current (FLA)	A	0,5	0,5	1,1	1,1	1,75	1,75	1,75	1,6
Duct Diameter	mm	100	100	125	125	125	150	150	180
Air Flow	m3/h	275	325	430	550	580	675	775	875
Dimensions	Length (mm)	418	418	448	448	520	520	555	555
	Width (mm)	150	170	170	170	175	175	175	240
	Height (mm)	545	545	595	595	605	605	647	630
Net Weight	Kg	10,8	11,2	13,5	13,5	17,5	17,5	20	20

Model No/Name		AFSH05	AFSH08	AFSH10	AFSH12	AFSH16	AFSH18	AFSH21	AFSH24
Cooling Capacity	Btu/h	5,000	8,000	10,000	12,000	16,000	18,000	21,000	24,000
Cooling Capacity	kW	1,46	2,34	2,93	3,51	4,69	5,27	6,15	7,03
Fan Motor Power	W	105	105	240	240	400	400	400	355
Operation current (FLA)	A	0,5	0,5	1,1	1,1	1,75	1,75	1,75	1,6
Duct Diameter	mm	100	100	125	125	125	150	150	180
Air flow	m3/h	275	325	430	550	580	675	775	875
Dimensions	Length (mm)	550	550	448	448	520	520	555	555
	Width (mm)	410	430	460	460	525	525	570	570
	Height (mm)	200	220	220	220	230	230	230	230
Net Weight	Kg	11,8	12,2	14,5	14,5	18,5	18,5	21	21

### FEATURES

- Excellently quite sound level,
- Comfort of wide control panel options,
- Optional 2 or 3-way valve, easy installation of valve on AFC series,
- Electrical heater, over-flow switch etc. features as an option,
- Requires less space in the conditioned room,
- Individual control for each conditioned room.

### AFS BOX INCLUDES

- Fan coil unit,
- Air outlet adaptor,
- Base fixing parts.

### OPTIONAL ACCESSORIES

- AG02 digital control unit,
- 3-way valve,
- Electrical Heater,
- Over-flow switch,
- Return and supply air grills,
- Air ducts and clamps.

### AG02 CONTROL UNIT





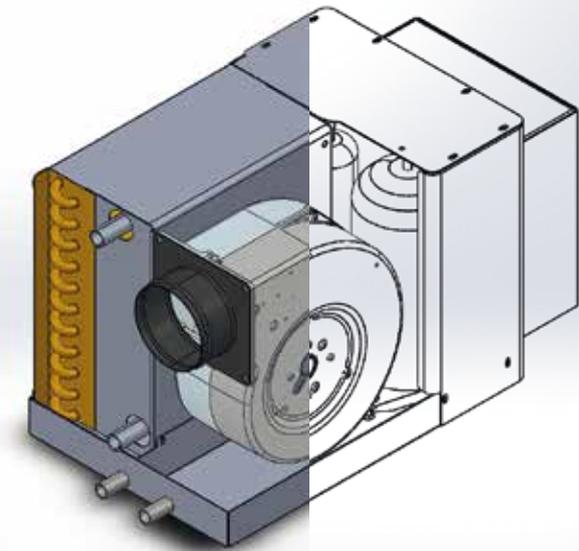
**a breath of mistralblue,  
a lifetime voyage...**



## SELF CONTAINED

Mistral Blue self-contained units are designed for both cooling and heating as standard, having compact design and chrome cabinet with an attractive appearance. Digitally controlled Mistral Blue self-contained units sense ambient conditions by 3 different sensors. These sensors let the control system to protect your Mistral Blue unit for a safe operation with high performance.

Units have high resistance to the seawater environment by chrome cabinet, Cu-Ni condenser, blue hydrophilic epoxy coated Cu/Al evaporator. Moreover, with 90°C rotating fan housing and low-profile design, your Mistral Blue unit can be adapted to any space easily. ASC series self-contained units have 11 capacity ranges from 5,000 btu/h up to 36,000 btu which are based on 47°C condensing temperature. Therefore, you will be at the right atmosphere where you need to be just by your finger touches.



### FEATURES

- Excellently quite sound level,
- Comfort of wide control panel options,
- Less power consumption and genset capacity,
- Wide data communication and protection by 3 sensors,
- Eco-friendly R410a refrigerant with high performance,
- Low profile design and easy installation.



### AG04 CONTROL UNIT



### OPTIONAL ACCESSORIES

- Seawater pump,
- Return and supply air grills,
- Installation kit.

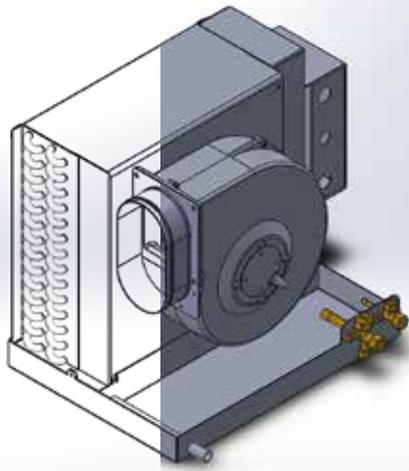
### STANDARD PACK INCLUDES

- AG04 digital control unit,
- Main unit (R410a refrigerant charged),
- Air outlet adaptor,
- Base fixing parts.

Model No/Name		ASC05	ASC08	ASC10	ASC12	ASC16	ASC18	ASC21	ASC24	ASC27	ASC31	ASC36
Cooling/Heating Capacity	Btu/h	5,000	8,000	10,000	12,000	16,000	18,000	21,000	24,000	27,000	31,000	36,000
Power Supply	V/Ph/Hz	230 V / 1 Ph. / 50 Hz. (60Hz optional)										
Power Consumption	W	650	675	765	955	1,260	1,385	1,670	1,905	2,085	2,410	2,715
Operating Current (FLA)	A	3,1	3,15	3,20	4,05	6,45	6,90	7,10	7,70	8,10	11,75	12,15
Start-up Current	A	11	16	17	19	25	26	29	32	35	42	44
Required Circuit Protection -C type	A	6	6	6	8	10	10	10	13	13	16	16
Duct Diameter	mm	100	100	125	125	125	150	150	180	200	2x150	2x180
Refrigerant	Type	R410a										
"Dimensions A/C Unit"	Length (mm)	415	420	430	430	493	493	535	535	535	745	745
	Width/depth (mm)	271	291	291	291	329	329	329	349+120	349+120	545	545
	Height (mm)	302	302	328	328	352	352	395	395	405	450	520
Net Weight	Kg	23	25	30	30	38	42	43	47	52	80	90
Air Flow	m3/h	250	330	480	480	590	700	805	1000	1100	1450	1650
Condanser Pipe Dia	inch (mm)	3/4"(19)										
Drainage Pipe Dia	inch (mm)	5/8"(16)										
Condanser Water Flow	lt/min	5	8	11	13	17	19	22	25	28	33	38

\* Capacities are based on 6°C evaporating temp. and 47°C condensing temp. in cooling mode; 6°C evaporating temp. and 52°C condensing temp. in heating mode.

# SPLIT



## AG04 CONTROL UNIT



Mistral Blue split units are designed for both cooling and heating as standard, composed of a condensing unit and indoor unit. Your Mistral Blue condensing unit is able to operate with 2 indoor units installed in 2 different rooms as a multi-split system. Digitally controlled Mistral Blue self-contained units sense ambient conditions by 3 different sensors. These sensors let the control system to protect your Mistral Blue unit for a safe operation with high performance. Units have high resistance to the seawater environment by chrome cabinet, Cu-Ni condenser, blue hydrophilic epoxy coated Cu/Al evaporator. Moreover, with 90°C rotating fan housing and low-profile design, your Mistral Blue unit can be adapted to any space easily. ASP series split units have 11 capacity ranges from 5,000 btu/h up to 36,000 btu/h which are based on 47°C condensing temperature. Therefore, you will be at the right atmosphere where you need to be just by your finger touches.

Single / Multi Condensing Unit												
Model No/Name		ASP05	ASP08	ASP10	ASP12	ASP16	ASP18	ASP21	ASP24	ASP27	ASP31	ASP36
Cooling/Heating Capacity	Btu/h	5,000	8,000	10,000	12,000	16,000	18,000	21,000	24,000	27,000	31,000	36,000
Power Supply	V/Ph/Hz	230 V / 1 Ph / 50-(60Hz optional)										
Power Consumption	W	385	675	765	955	1,260	1,385	1,550	1,905	2,085	2,410	2,715
Operating Current Condensing Unit (FLA)	A	3,6	3,7	3,80	4,6	7	7,45	7,70	8,20	8,60	12,75	13,15
Start-up Current (LRA)	A	13	18	18	20	26	28	30	33	36	44	46
Required Circuit Protection - C Type	A	6	6	6	8	10	10	10	13	13	16	16
Refrigerant		R410a										
Condanser Water Flow	lt/min	5	8	11	13	17	19	22	25	28	33	38
Condanser Pipe Dia	inch (mm)	3/4"(19)										
"Dimensions A/C Condensing Unit"	Length (mm)	275	275	275	275	335	335	360	360	360	450	450
	Width (mm)	255	270	270	270	270	270	270	270	270	350	350
	Height (mm)	305	305	330	330	355	355	420	420	440	450	500
Net Weight	Kg	17	19	20	21	26	27	30	33	37	42	44

Single / Multi Indoor Unit												
Model No/Name		ASP05-I	ASP08-I	ASP10-I	ASP12-I	ASP16-I	ASP18-I	ASP21-I	ASP24-I	ASP27-I	ASP31-I	ASP36-I
Cooling/Heating Capacity	Btu/h	5,000	8,000	10,000	12,000	16,000	18,000	21,000	24,000	27,000	31,000	36,000
Power Supply	V/Ph/Hz	230 V / 1 Ph / 50-(60Hz optional)										
Operating Current Indoor Unit (FLA)	A	0,46	0,46	1,05	1,05	1,75	1,75	1,75	1,55	1,55	2,15	2,84
Air Flow	m3/h	250	330	480	480	590	700	805	1000	1100	1450	1650
Fan Motor Power	W	105	105	240	240	400	400	400	355	355	490	650
"Dimensions A/C Indoor Unit"	Length (mm)	338	333	333	333	408	408	425	425	440	550	550
	Width (mm)	250	272	272	272	310	310	320	310+155	320+135	545	545
	Height (mm)	302	302	302	302	350	350	385	385	400	445	500
Net Weight	Kg	9	10	10	10	17	17	18	19	20	26	28

\*Capacities are based on 6°C evaporating temp. and 47°C condensing temp. in cooling mode; 6°C evaporating temp. and 52°C condensing temp. in heating mode.

### FEATURES

- Excellently quite sound level,
- Comfort of wide control panel options,
- Less power consumption and genset capacity,
- Wide data communication and protection by 3 sensors,
- Eco-friendly R410a refrigerant with high performance,
- Requires less space in the conditioned room,
- Ability to control 2 rooms at the same time by multi split system.



### OPTIONAL ACCESSORIES

- Seawater pump,
- Return and supply air grills,
- Installation kit.

### STANDARD PACK INCLUDES

- AG04 digital control unit,
- Condensing unit (R410a refrigerant charged),
- Indoor unit,
- Air outlet adaptor,
- Base fixing parts.



# MB SPECIFICATIONS



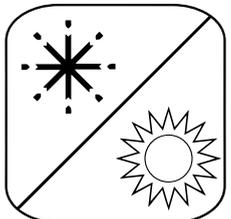
## HPS

System pressure is controlled by HP switch and main board. Therefore, your MB unit is protected against negative effects of high pressure.

**3 min.**

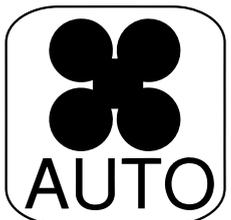
## PROTECTION

In case of any unexpected powercuts, unit will delay functioning 3 minutes to protect compressor and the circuit.



## REVERSE CYCLE

All MB units are designed both for cooling and heating.



## AUTOMATIC FAN

In order to provide set room temperature, fan speed is set convenient one of these steps automatically.



## COMPACT

MB design is compact, fit into limited spaces.



## COIL SENSOR

2 Coil sensors separately for winter and summer exist in MB units. Therefore, your MB unit is protected against low pressure.



## CONTROL UNIT

MB units have elegant and functional so touch control unit having power supply output to the seawater pump.



## FLEX FAN DIRECTION

The housing blower is able to rotate 0 - 90 degrees to support installation difficulties according to the available space.

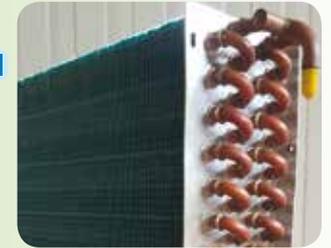


## CONDENSER

MB units are equipped with 90/10 Copper Nickel high resistant condensers.

## EVAPORATOR

Blue Hydrophilic epoxy coated evaporator supports easy drainage and prevents to get dusty.



## CHROMIUM CABINET

Smart design of chrome cabinet provides attractive appearance, blocks the sound, protects MB unit from outer effects and intelligent service access from the top of the unit.



## PRE-HEATING

Fan blow does not start before the unit is ready for efficient heating.



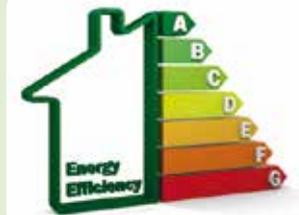
## R410a

Efficient and eco friendly refrigerant R410a is used in MB units.



## ENERGY CONSUMPTION

MB units require lower energy consumption that will require lower genset capacity.



*Various kind and size of accessories are supplied upon request.*

### Seawater and Chilled Water Pumps

STAINLESS STEEL PUMP



BRONZE PUMP



MAGNETIC PUMP



### Grills & Plenum Boxes

SUPPLY AIR GRILL



RETURN AIR GRILL



PLENUM BOX



### Seawater Line Fittings





İKLİMLENDİRME ve HAVALANDIRMA  
SİSTEMLERİ SANAYİ ve TİCARET LTD. ŞTİ.

Tel. : +90 (232) 864 15 15

e-mail : [info@argosair.com](mailto:info@argosair.com)

Fax : +90 (232) 864 15 25

Kazım Karabekir Mah. Bekir Saydam Cad. No: 104 A9 Blok, No:18-20 Pancar, Torbalı, İzmir, TURKEY

