

شركة العفيفي للهندسة والتجارة ذ.م.م.

AL AFIFI ENGINEERING & TRADING CO. W.L.L.

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AFIFI COOL



A Leading and Pioneer Company in manufacturing of replacement condenser/evaporator coils for all types of Air-Conditioning Units since 1998 and Manufacturers of cooling Systems.

Overhauling/Repairing all types of Heat Exchangers, HVAC Compressors (Carrier, York, Trane, Bitzer, Copeland, etc.)

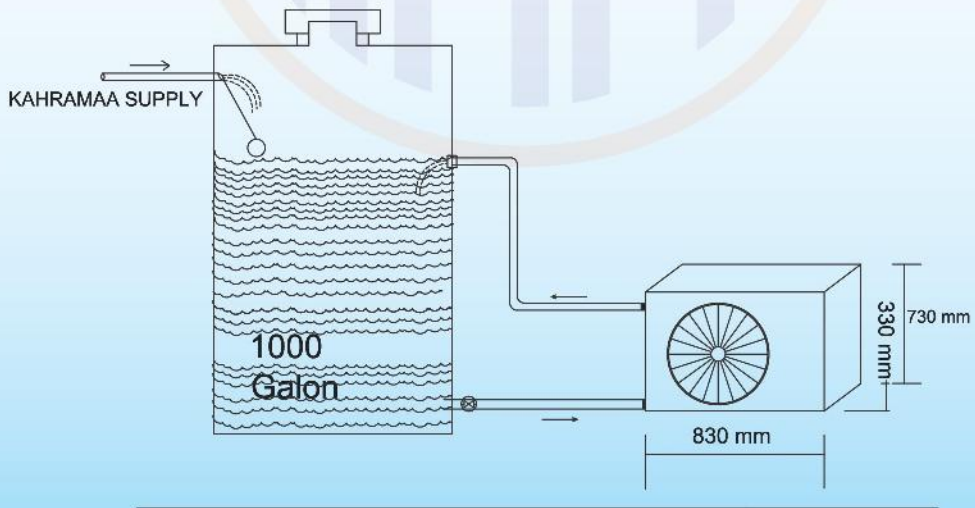
HVAC Contractors for Installation / Maintenance.



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M/s Al-Afifi Engineering & Trading Company W.L.L is proud to announce the launch of its new product named “**AFIFI COOL**” which is domestic water cooling unit. Al-Afifi as you all know is one of the market leaders in air conditioner and refrigeration equipments. Moreover Al-Afifi is well known for manufacturing of Condenser / Cooling Coils / HVAC filters.

“**AFIFI COOL**” cooling unit is a unique roof top water storage tank water cooling system for peak summer usage when the water temperature in roof top water storage tank reaches unbearable temperatures. Cooling Unit cool the water in the roof top tanks to a comfortable temperature ideal for a refreshing shower or for household use such as washing, cleaning utensils, clothing's etc. during peak summer.



Highlights:

- Available in 1.5, 2.0, 2.5 and 3 ton nominal cooling capacity
- Available for 500 to 1500 gallons water storage capacity
- Unit casing is made of high quality GI Sheet 18 gauge and anti-corrosive sheet which is electrostatic dry powder coated or painted as required
- Compressor is Reciprocating / Rotary type with internal overload protection
- Condenser – Seamless copper pipe bonded to aluminum fins hydraulically expanded at 2000 PSI and leak tested on 500 PSI
- Condenser fan – Axial fan direct driven by electrical motor and exhaust is installed with grill for protection
- Controls – Contactor with overload protection, delay timer to protect compressor cycling, temperature control to maintain required water temperature, operating and safety controls as per designed performance
- Electrical Components are enclosed in unit mounted control panel for long lasting life
- Compatible with all types of roof water storage tanks existing or new installation
- Guaranteed after sales service support and availability of spares parts

Performance:

1. water temperature in the tank during the summer season will be @55 °c or above.
2. By 7 Hours Regular performance of the cooling equipment the temperature can reach up to 20 °C
3. Same temperature shall be maintained in the tank through the cooling equipment by its repeated Circulation

4. System has re circulating built - in pump
5. Heat exchanger - shell / tube
6. Controls - adjustable thermostat for temperature setting according to the clients requirement
7. Water connection - 22 mm o/d copper pipe
8. Refrigerant - R 22
9. Axial fan with grill protection

Safety Measures: AFIFI COOL domestic water cooling unit

1. Isolate the main power supply before opening the unit control panel for performing any maintenance work
2. Since the condenser fan rotates at high speed, Do not insert any stick in the fan to avoid any misshaping
3. Do not obstruct the condenser fan outlet.
4. Please consult authorized dealer or specialist for installation / any maintenance. It should be done by the qualified technicians only
5. Do not allow the unit to run in dry condition.
6. Use the proper / specified tools to do any sort of maintenance activity with the machine.
7. Do not cover the condenser coil, it should be kept free for natural air flow.
8. Proper wires and circuit breaker / Isolation switch shall be used for installation.
9. The area around the cooling unit should be free from any obstruction to get proper air circulation.

10. Do the periodical maintenance according to the manufacturer's recommendations / instruction to enhance the machine life and better performance

Warranty/Undertaking:

1. This warranty does not cover damage by misuse, accidents or alteration of workmanship. In addition it is expressly understood that management shall not be liable for any patent defect of the product which is not included in the job contract.
2. The warranty card will be valid only if the warranty card is presented together with the original invoice or receipt issued to the buyer.
3. The equipment is fully guaranteed for a period of one year subject to the following :
 - a. The equipment is used on correct electricity supply and installed correctly.
 - b. The appliance has been used for domestic purpose only.
 - c. The equipment shall be in the possession of the original purchaser. Any labor, material, spare parts etc after one year shall be chargeable.
4. Further the compressor is guaranteed for a period 2 years from the date of installation provided the installation is done as per the manufacturer recommendation.
5. The equipment shall be installed by the qualified technicians only with proper tools.
6. The equipment is designed for normal domestic purpose and it should be used in according to the manufacturers operating instructions.
7. The management shall not be liable for any misuse of the equipment or handled by unqualified technicians during installation or maintenance process.

Physical Data

Model Number	Compressor		Fan (Propeller)		Fan Motor		Condensor Coil				Unit Weight Kg / [LBS]		Charge Kg / [LBS R-22]	Dimensions		
	Rating KW [Tons]	Compressor [Stages]	Qty	Dia mm [In]	Normal CFM	KW [HP]	RPM	Face area M ² [Ft ²]	Fins per Inch	Rows Deep	Ship.	Oper.	Oper.	Width Cm [Inch]	Height Cm [Inch]	Depth Cm [Inch]
AFC 1816	5.3 [1.5]	1	1	400 [16]	3715	0.165	1360	0.386 [4.15]	13/14	2	78 [176]	72 [162]	1.80 [4.05]	83 [33]	73 [29]	33 [13]
AFC 2416	7.2 [2 tr]	1	1	400 [16]	3715	0.165	1360	0.386 [4.15]	13/14	2	85 [191]	75 [169]	1.80 [4.05]	83 [33]	73 [29]	33 [13]
AFC 3016	8.8 [2.5]	1	1	500 [20]	6100	0.390	1320	0.386 [4.15]	13/14	2	91 [205]	81 [183]	2.25 [5.00]	91 [36]	81 [32]	41 [16]
AFC 3616	10.6 [3]	1	1	550 [22]	8250	0.500	1340	0.386 [4.15]	13/14	2	111 [250]	99 [223]	2.70 [6.00]	99 [39]	89 [35]	49 [19]

Electrical and Mechanical data

Model Number	Compressor Reciprocating / Rotary type										
	Rate Current Amp	Power Supply	Input watt	E.E.R [BTU/W/H]	Sound Level dba	No. of Circuits	Chilled Water Flow G.P.M.	Chilled Water Tem. In/Out °C (°F)	Water Connection In/Out mm/inch		
AFC 1816	12.1/ 12.95	220-240 1P-50Hz	2525/ 2695	10.24	73	1	4.8	12.77-7.22	22		
AFC 2416	13.3	220-240 1P-50Hz	2712	10.24	73	1	4.8	12.77-7.22	22		
AFC 3016	15.5	220-240 1P-50Hz	2900	11.5	73	1	6.0	12.77-7.22	22		
AFC 3616	18	220-240 1P-50Hz	3250	11.5	73	1	7.2	12.77-7.22	22		

Preventive Maintenance

For better performance of the machine, the unit requires periodically maintenance.

1. Condenser should be clean with a brush and water.
2. Fan and outside body should be cleaned by soft and wet cloth.
3. In any case thinner or petrol should not be used for cleaning.
4. Main Power Supply should be turn off while cleaning water tank.
5. Check any water leakage or Freon leakage in the refrigerant circuit.

Warranty Card

- * Brand: AFIFI COOL
- * Model:.....
- * Purchase date:.....
- * Customer's Name:.....
- * Address / telephone:.....
- * Item no:.....
- * Serial no:.....
- * Expiry date:.....
- * Invoice No.:.....
- * Signature & stamp:.....

This warranty is valid only if filled completely subject to the terms and conditions specified herein and stamped by **Al-Afifi Engineering & Trading Company W.L.L.**



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