

# Vemp Power

Chillers & Heat Pumps

Vemp Power

Innovations Ultimate In Water Cooling & Heating Solutions



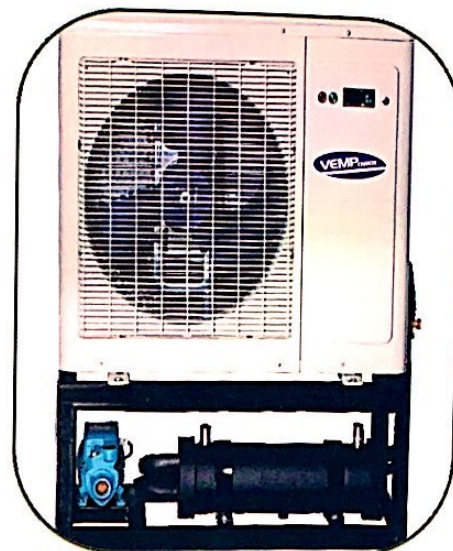
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## OUR CHILLERS ARE SUITABLE FOR

- ❖ Water Jet Cutting Systems
- ❖ Plastics - Injection Moulding / Blow Moulding Extrusion, Film Extrusion, Thermo Foaming, PVC Pipes
- ❖ Roof Top Water Tank Cooling Systems for Villas and Residential Apartments
- ❖ Ready Mix. Concrete Mixing Plants
- ❖ Paper Manufacturing, Printing, Card Board Labels, Plastic Film
- ❖ Low Temperature Applications, Cold Storages
- ❖ Laser - Welding Profiling, Cutting, Optics, medical Aesthetics
- ❖ Air Conditioning
- ❖ Mechanical heavy Duty Industrial Lathes, Heavy Duty Air Compressor, Polishing, Machine Cooling
- ❖ Food - Food Processing, Kitchen, Drinks
- ❖ Lubricants - Oil Cooling and Dewaxing of Oils.
- ❖ Industrial Laundry



## HEAT PUMP

Heat pump technology is based on refrigeration cycle. Heat pump absorbs heat from the atmosphere and delivers to pools in winter. In summer it absorbs from pool water and transfers it to atmosphere. Heat pump technology developed updated and expanded in the market because of very low Electrical Consumption as compared to an electrical pool heater. The main attraction of Vemp Power Heat pumps is its design with High Cop with almost 80% electrical saving and 4-5 times energy output. Vemp Power heat pumps are designed specially for G.C.C. conditions based on temperatures of 52°C in summer and 6°C in winter. Electrical heaters, gas or oil has high running costs and will be useful only during winter (maximum 4 months.)

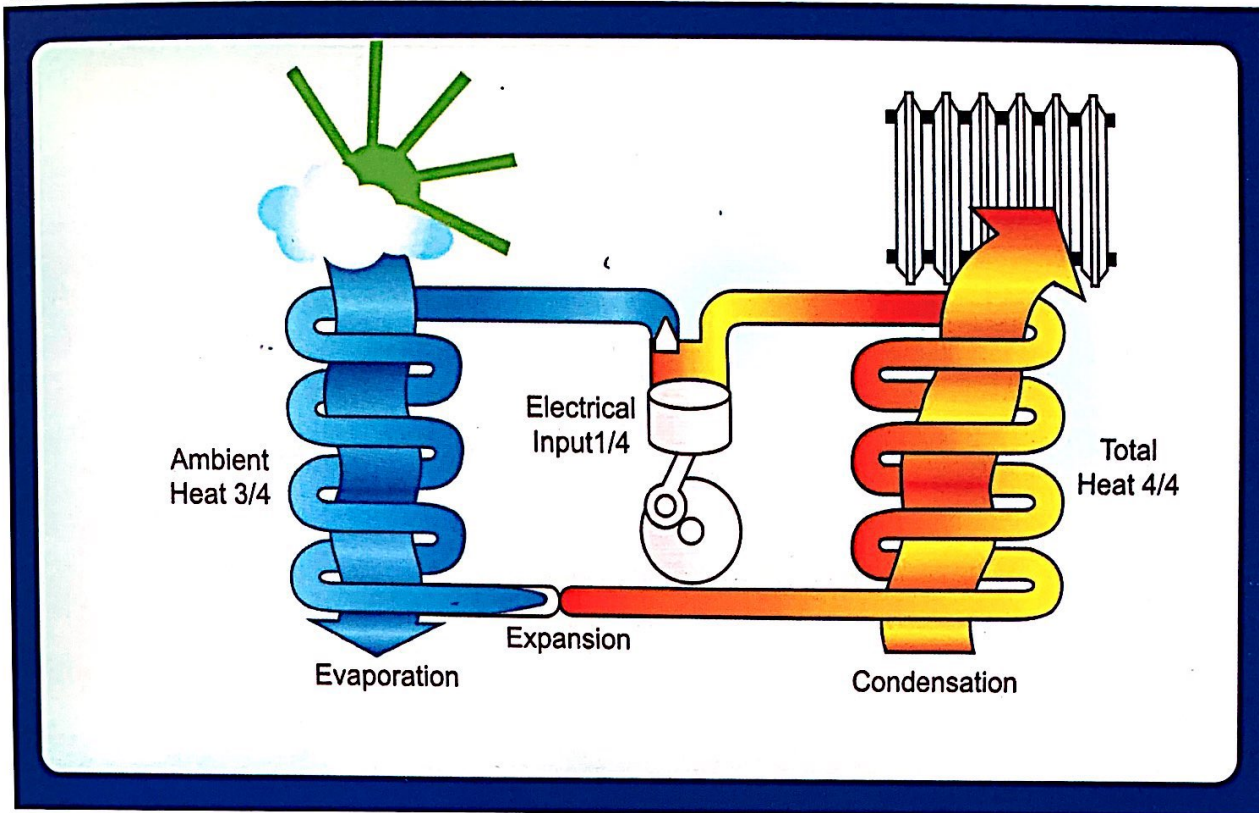
In Gulf summer is long and ambient temperatures are very high for comfort swimming as per standard the water temperature should be 28-29°C in summer and 30-32°C in winter. Only heat pumps can give heating and cooling simultaneously for the pool as per the standard temperature. Vemp Power heat pumps are highly efficient and one of the best rated leading heat pumps available in the market with a excellent back-up team comprising of qualified engineers & technically experienced staff.

## VEMP POWER SPECIALITIES

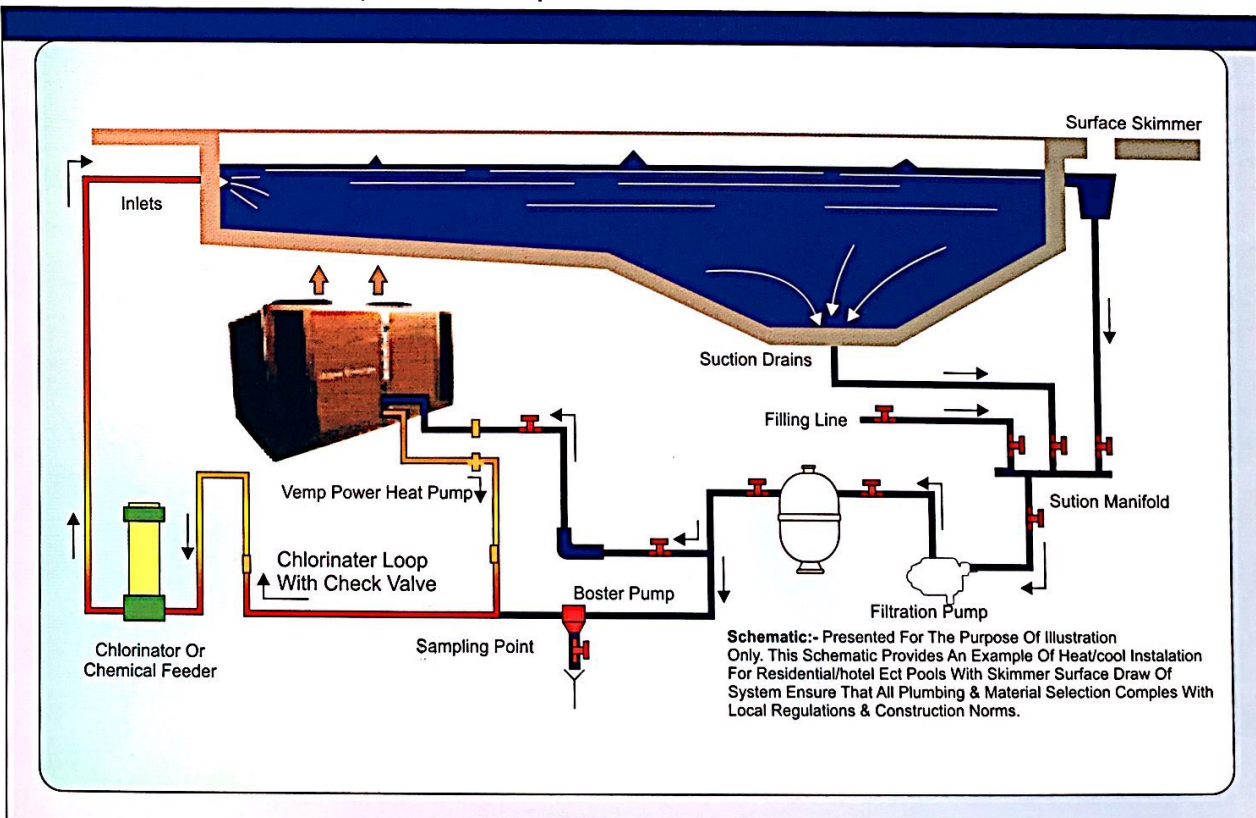
1. Maximum power saving with a high COP.
2. High efficiency Danfoss (France) Piston Type and Copeland Scroll (USA) compressor.
3. Long Life Heat Exchanger SS316 shell because of its high chlorine resisting capacity with maximum heat transfer efficiency.
4. Larger condenser surface area for optimum heat transfer and coated with anti corrosive chemicals. Specially for GCC climatic conditions.
5. Very low noise level.
6. Weather proof cabinet for all climatic conditions including sea sides.
7. Multi programmable digital temperature control system.
8. Low electrical input KW and high heating and cooling output.
9. All automatic protections such as high pressure and low pressure cutout switches, over load protector, auxiliary relays, flow switch, accumulators, liquid receivers etc.
10. ELCB provided for protection of machineries from minor electrical leakage.
11. Flow switch and indicator to protect the machine from low and high water flow.
12. Time delay switch to avoid a high starting current.
13. Anti-freeze protection.
14. Digital water temperature display.
15. Phase and voltage monitor relay switch to protect the unit from low and high voltage variation and phase failure.



## Heat Pump Schematics



Pool Filtration Schematics With Vemp Power Heat Pump



## HOW EFFICIENT IS IT?

The efficiency of the heat pump is measured by the coefficient of performance (C.O.P.) - i.e. the ratio of energy input to energy output. This is dependant on the ambient air temperature and the temperature of the water of the swimming pool. For every unit of electricity Vemp Power uses, it produces 4 to 6 units of heat extracted from the ambient air.



## SPECIFICATIONS

Heat Pump Model Number	CHILLER Model Number	TON/ HOUR	BTU	Heating KW	Cooling KW	Volt	PH	Amps	Running KW	Pipe Size (Inch)
VPH24	VPC24	2	24,000	10	7	240-220	1	12	12	1
VPH30	VPC30	2.5	30,000	12	21	240-220	1	13	13	1
VPH36	VPC36	3	36,000	15	17	420-380	3	8	8	1
VPH60	VPC60	5	60,000	25	105	420-380	3	11	11	1
VPH72	VPC72	6	72,000	30	87	420-380	3	14	14	1
VPH90	VPC90	7.5	90,000	37	70	420-380	3	16	16	1.5
VPH108	VPC108	9	108,000	45	61	420-380	3	17.5	17.5	1.5
VPH120	VPC120	10	120,000	50	52	420-380	3	18.5	18.5	1.5
VPH150	VPC150	12.5	150,000	62	43	420-380	3	20.5	20.5	1.5
VPH180	VPC180	15	180,000	75	35	420-380	3	26.5	26.5	2
VPH210	VPC210	17.5	210,000	87	31	420-380	3	34	34	2
VPH240	VPC240	20	240,000	100	26	420-380	3	37	37	2
VPH300	VPC300	25	300,000	125	10	420-380	3	41	41	2
VPH360	VPC360	30	360,000	150	8	420-380	3	53	53	2.5
VPH480	VPC480	40	48,000	200	140	420-380	3	73	73	3

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في ميب باور للخدمات الفنية ش.م.م  
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