



**CONTEC AIRFLOW PROJECTS PVT. LTD.**

ISO 9001:2008 Certified Company

**ENJOY INDUSTRIAL DESERT SAFARI**

**AT 50%\***

**OPERATING COST**

**WITH OUR**

**DEGRAINIZERS**

**(DEHUMIDIFIERS/CHILLERS)**

**WORKING ON**

**SEAMLESS ULTRA COOL CONDENSATION**

**USING**

**SWITCH OVER ENERGY MULTIPLIER TECHNOLOGY**

**FOR US TECHNOLOGY IS BOTH - A PASSION & AN OBLIGATION**

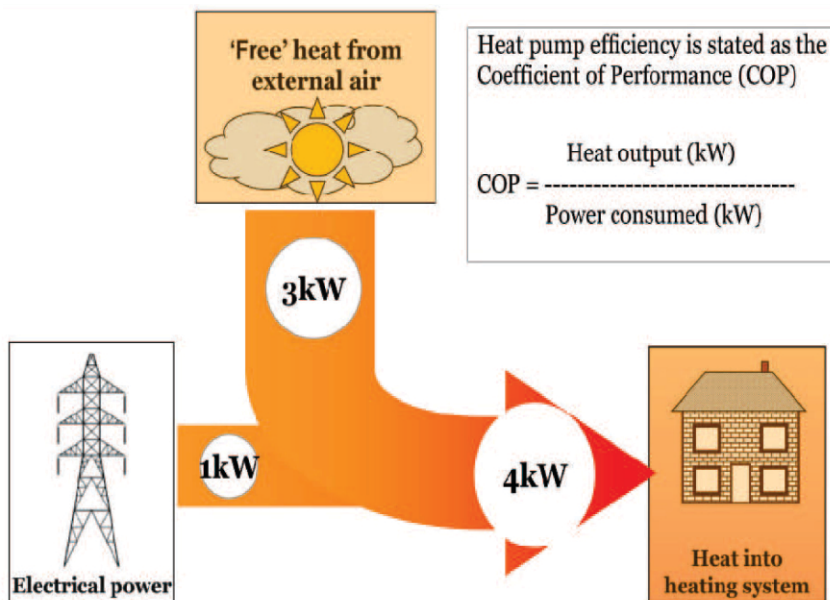
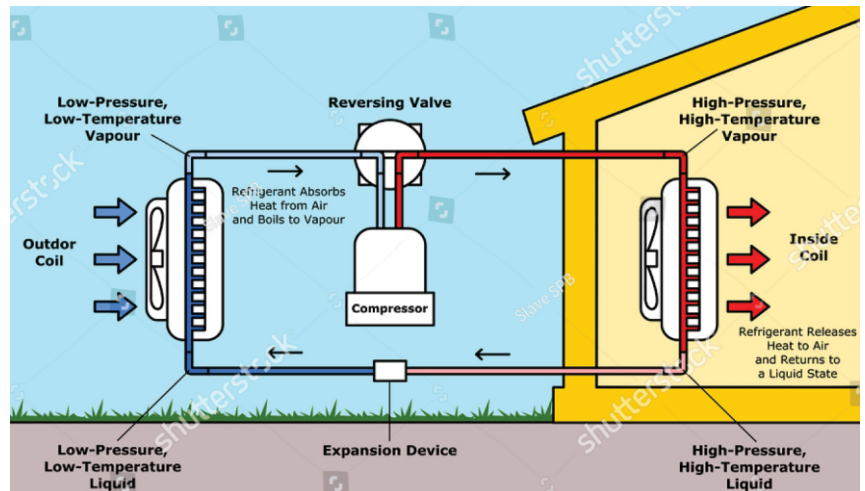
\* Will vary as per design application.



# HOW DOES ENERGY MULTIPLIER WORKS?

» In a refrigeration cycle, cooling is achieved in evaporator and heat is dissipated in air/water cooled condenser. In air /water cooled condenser heat is dissipated in atmosphere through atmospheric air /cooling tower respectively.

## Air Source Heat Pumps Heating Cycle



» Heating & cooling occupy very important place in your day to day operations & are responsible for substantial operating & capital costs. Our solutions are designed to enable to do so.

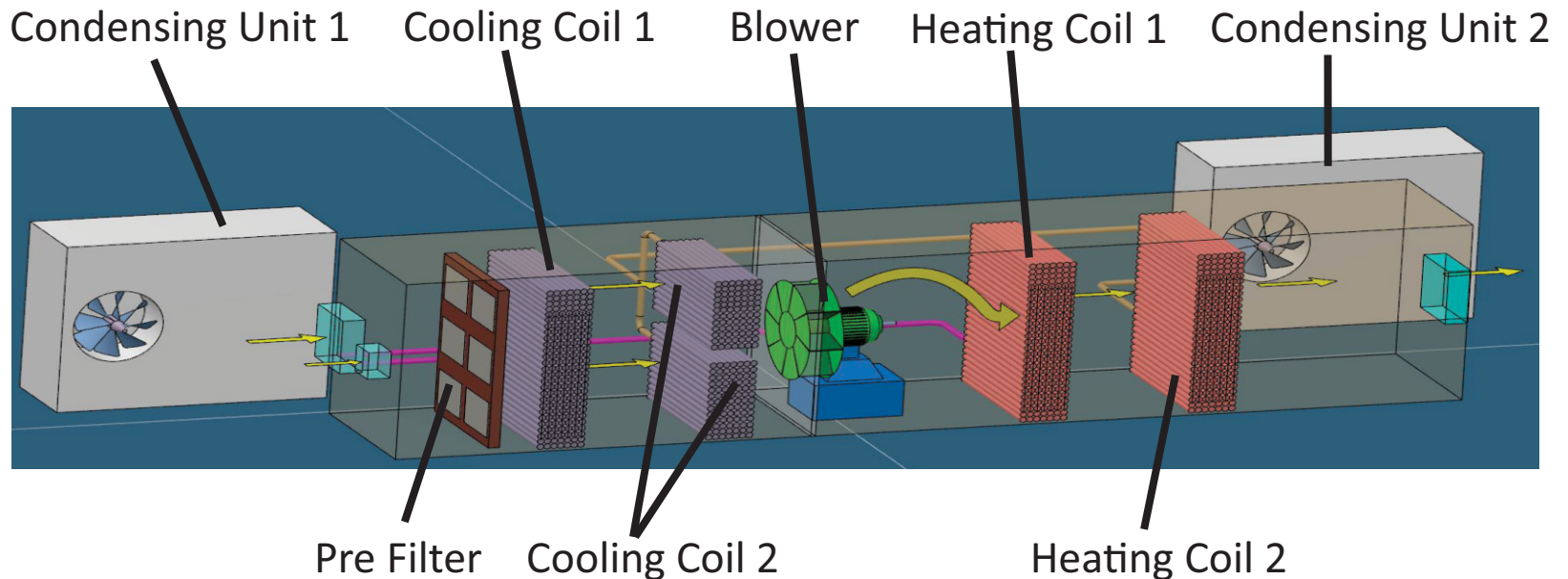
» Money is usually spent on availing any one side of transaction while other side is allowed to go waste. If we somehow avail both sides of transaction & put into use, we end up saving big amounts of energy.

» Water can be heated to 55°C using heat pump with a COP of 3.5, i.e 3.5 kW of heat can be availed by spending 1.0 kW of electricity.



# ENERGY MULTIPLIER DEGRANIZER – DEHUMIDIFIER'S

(WITH SEAMLESS ULTRA COOL CONDENSATION SWITCH OVER)



## THERE ARE FOUR STAGES INVOLVED IN THIS PRINCIPLE

- » **STAGE 1** Cools the fresh air or return air close to 0°C or as required by design. Cooling condenses the moisture in air.
- » **STAGE 2** Ultra cool's the stage 1 air below 0°C or as required Dew Point by design. Ultra cooling further condenses the moisture in the air .
- » **STAGE 3** Reheats the air through condenser heat recovery module of stage 1.
- » **STAGE 4** Reheats the air through condenser heat recovery module of stage 2 to maintain room temperature.



- » **Innovative switch over Energy Multiplier technology ensures seamless close tolerance temperature & RH control.**
- » **You name it and we have it.**
- » **50% energy efficient solutions to all your humidity control needs.**



# ENERGY MULTIPLIER CHILLER

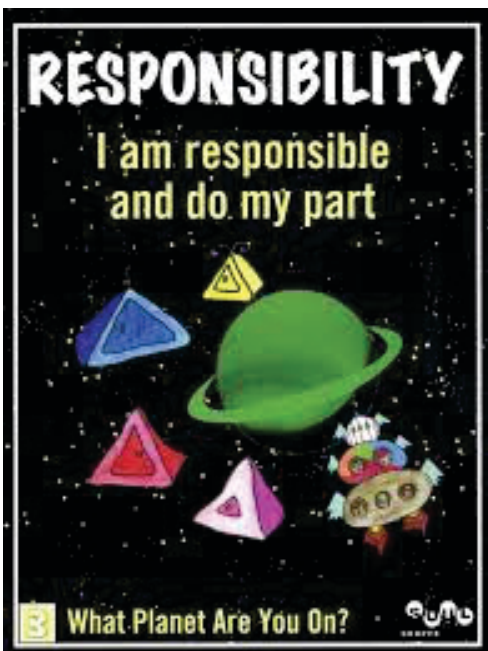
- » Gives chilled water on one side.
- » Gives hot water till 55°C on the other side.



## Advantages of Energy Multiplier Technology

- » Standalone and PLC controlled machine suitable for continuous operation (24x7) and does not require chilled water/brine or external heaters.
- » Air is continuously supplied at sub-zero dew point.
- » Air can be reheated to 55°C without using external heaters.
- » Available in flexible design construction to suit locational convenience. Highly Energy efficient- Energy saving of 50% or more as compared to conventional units.

## ENERGY MULTIPLIER CHILLER MODELS



Sr. No.	Model Number	Cooling- Chilled Water/ Air (TR)	Heating- Hot Water/ Air (kW)
1.	CEMC 04	1	3.5
2.	CEMC 06	1.5	5.5
3.	CEMC 08	2	7.5
4.	CEMC 10	3	10
5.	CEMC 20	5	20
6.	CEMC 30	8	30
7.	CEMC 40	11	40
8.	CEMC 75	20	75

Mittal Industrial Estate, 138, Bldg. No. 6, Andheri - Kurla Rd., Andheri (East), Mumbai - 400 059

Mobile : 91-93202 55124, Tel. : 2859 8231/39, 2852 8044, 7666002771

Website : [www.contecair.com](http://www.contecair.com) Email : [mks1\\_contec@yahoo.co.in](mailto:mks1_contec@yahoo.co.in), [info@contecair.com](mailto:info@contecair.com), [mks1\\_contec@rediffmail.com](mailto:mks1_contec@rediffmail.com)