

## VACTAL ENGINEERS PVT.LTD.

### An HVAC engineering Company

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#### OUR - DETAILS

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#### What we do

We are pleased to introduce ourselves as specialist in the field of **Refrigeration, Central Air-conditioning, Clean Room Jobs, and Ventilation & Air-cooling**. The main objective of our Company is to undertake turnkey project in **Heating, Ventilation & Air-conditioning Systems**.

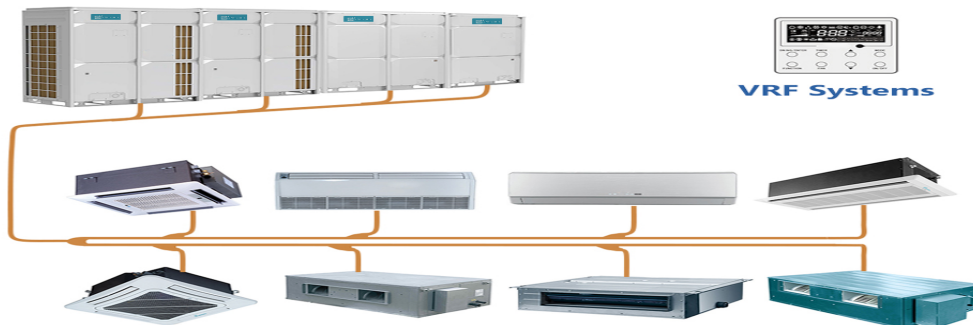
We have successfully executed a number of prestigious projects with entire satisfaction of our clients. We are authorized dealer of **M/s DAIKIN AIRCONDITIONING INDIA PVT. LTD.** for equipment like **VRV** Systems for various projects, Central Chilling Plants, Packaged Units, Ductable Units.

We are also an authorized dealer for **M/s Desiccant Rotor International (BRY AIR)** for their special product name as Energy Recovery Ventilator units (**ERV**).

Our organization have highly qualified and experienced Engineers who are dedicated in handling the Sales, Projects, Design, Execution and commissioning sections. Executions of all project is coordinated by supervisors, Duct fitters, Pipefitters, Insulators and mechanics that bring with them years of experience from our leading Air-conditioning organization. We do hope with our experience and background you will entrust us and we assure you that it will be done to your entire satisfaction and work completed well within the stipulated period.

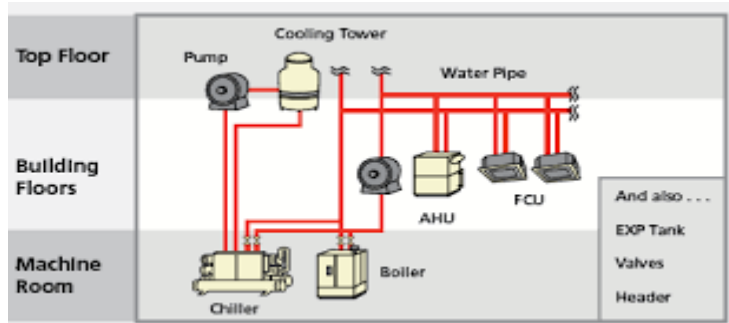
#### VRV – Section :-

Variable refrigerant flow (**VRV**), also known as variable refrigerant volume (**VRV**), is an HVAC technology invented by Daikin Industries, Ltd. in 1982. . This refrigerant is conditioned by a ngle or multiple outdoor condensing units, and is circulated within the building to multiple indoors.



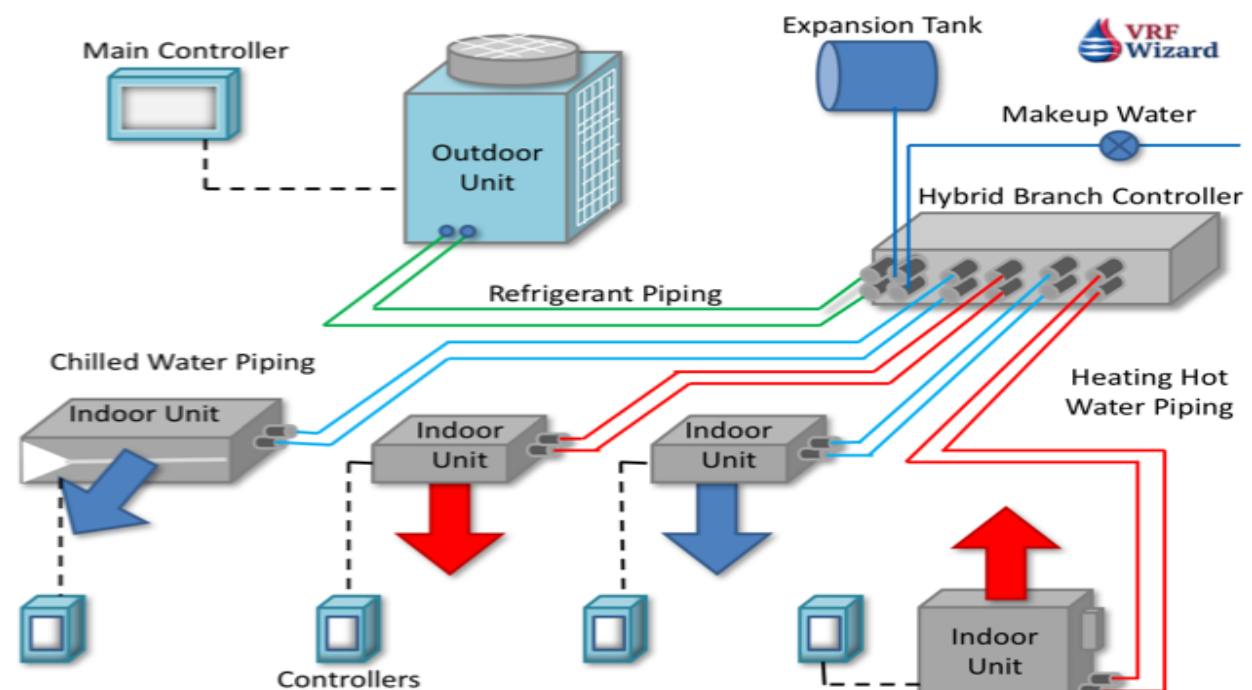
## Chiller – sections :-

A **chiller** works on the **principle** of vapor compression or vapor absorption. **Chillers** provide a continuous flow of coolant to the cold side of a process water system at a desired temperature of about 50°F (10°C).



## Hot water systems :-

The warm gaseous **refrigerant** is circulated in the **system** via a compressor. As it passes through the compressor, its pressure rises, as does its temperature. This **hot refrigerant** then passes through a **heat** exchanger to **heat** the **water**, which is finally pumped to the storage tank.



### Cold – rooms :-

Refrigeration systems **work** by compressing a refrigerant, then allowing it to expand. The expansion of the gas absorbs energy, cooling the evaporator coils and, indirectly, the air passed over them. ... Fan or fans, to circulate air over the **cold** evaporator coils, thereby cooling the cool **room**.



### UV Technologies :-

Perhaps the most effective **method** for cleaning indoor air through an **HVAC system**, however, is **ultraviolet-C (UV-C)** technology. And, at an average of \$0.15 /CFM, **Ultraviolet** Germicidal Irradiation might be the most affordable means of improving indoor air quality (IAQ) and reducing disease transmission.



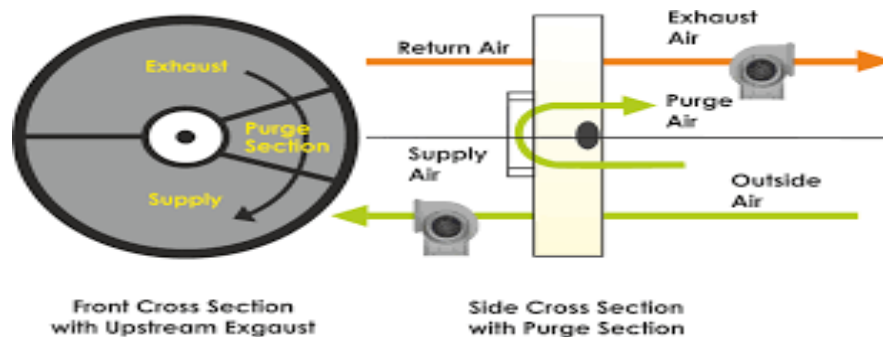
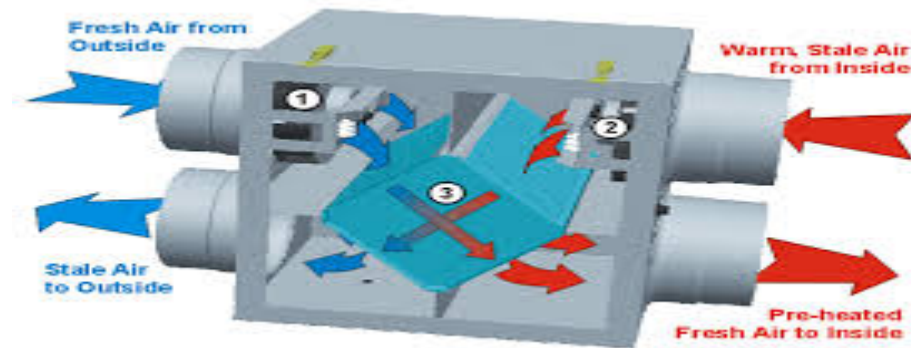
### Best UV Lights For HVAC

*Our Top UV Lights To Kill Mold*



### ERV Section :-

An ERV operates on the basis of this air-to-air exchange theory. A spinning wheel, or stationary core device utilizes the counter-flow of air to remove the stale air from inside a building, while retaining air temperature.



### Multiple Markets served and Serving :-

Our organization serves solutions span many markets. From commercial comfort Air-conditioning to refrigeration job to process cooling of chilled water, mechanical ventilation, car parking with & without duct less fans, residential & commercial building & hotels with new innovative Technology such as variable refrigerant volume (VRV/VRF).

For any queries and details ,please feel free to ask at the below.We can quote at your wish and can give the demonstration without any charges.

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