



[www.fidvirefrigerationind.org](http://www.fidvirefrigerationind.org)



## *About Us*

Fidvi Refrigeration Industries is leading manufacturers in all type of HVAC products. We are based in Mumbai with state of art infrastructure for high end manufacturing. We strive our manufacturing facility for implementation of advanced technology & International standard operating processes. Finding extensive usage in meeting the refrigeration and air conditioning needs arising at client's end, the range we offer include condenser, cooling coil, unit cooler, diffuser, double circuit cooling coil, tube type cooling coil, chill water cooling coil, steam heating coil, marine oil cooler, refrigeration radiator, fan coil unit and air handling unit. We offer a complete range of High Integrity HVAC equipment suitable for use worldwide including Harsh Environments.

## *We Believe In*

- Treat all people with respect and dignity; value differences
- Pursue an unrelenting quest for quality; use speed and simplicity to achieve goals
- Conduct ourselves with the highest level of integrity and business ethics
- Place the interests of customers first; our success depends on your success
- Commit to teamwork; seek out and use the ideas and skills of all associates
- Reach for the highest standards of performance; show a passion for winning





## *Industries We Serve*

Optimally designed and constructed, our range of heat exchangers, coils and other associated HVAC equipment find extensive usage in industries

- Industrial and Institutional Application
- Military Installations
- Marine Aerospace
- Power Plants
- Textiles
- Petrochemical Refineries
- Pharmaceutical
- Chemical
- Shipping
- Cement
- Steel
- Other process industries

## *Infrastructure Facilities*

From our base in South Mumbai, Maharashtra, we manufacture a wide range of refrigeration, conditioning coils and air conditioning equipment for some very high profile HVAC projects. Here we utilize the latest technology and the skills and expertise of our experienced engineers to design and build heating and cooling equipment for even the most difficult of environments.

We have with us well developed production facilities that allow us to deliver effective end solutions including refrigeration & conditioning coils and other associated HVAC equipment. The strong team support provided in the involved operations & their strong hold over the effective use of available processing technology & equipment also allow us to deliver products as per the standard & customized specifications demanded by our clients. Further, the use of latest technologies, innovative production techniques & cost cutting measures also allow us to offer these equipment at competitive prices & as per international quality standards



## *Designing Unit*

We collectively work towards offering clients upgraded range of heat exchangers that successfully meet the complete HVAC product application requirements at client's end. The expertise of our qualified engineers in the handling of modern CAD/ CAM software allow us to strictly comply to requisite international codes & standards. Further the effective use of these facilities also helps in rectifying the faults at designing stage itself, thus ensuring clients highly functional end product.



## *Support & Service*

We offer clients competitive maintenance services for our range of equipment that meet the heating, ventilation and air conditioning demands of clients ranging from small restaurants to large multi-building industrial sites. Our team of experienced engineers ensure that equipment is operating correctly & safely, thus prolonging unit's life expectancy. Further, our team of service engineers assist in fixing & rectifying the faults ensuring uninterrupted functioning at client's end.



## *Product Range*

Our well developed production facilities, support of competent team & strong command over the use of latest technologies in the involved processes have assisted us to successfully emerge as reliable solution providers in the field of HVAC equipment. Manufactured using superior grade of alloys including copper, aluminium the range of products we deal in include:

## *Refrigeration Gases*

Refrigeration Gases such as 12, 22, 134 A , 404A, 407C, 502, ISCEON 59, 79, 49

## *Heat exchangers: Shell and tube*

- This proven fixed tube sheet shell and tube heat exchanger offers the cost effectiveness that comes with having a highly standard design, while easily providing for various options to meet specific customer requirements.
- Product Highlights
  - Pre-engineered components
  - Many off the shelf designs
  - Available in straight tube or u-tube bundles; removable and non-removable
- Diffusers, dampers, volume dampers, return and supply grills
- Axial & centrifugal fans
- Lubricants (of brands): SUNISO, FUCHS, EMKARTE Apart from these, we are also offering products like oil cooler, steam heating coil, marine oil cooler, air conditioning heat exchanger, cold room cooling coil, refrigeration radiator, fan coil unit, air handling unit and others.



## *HVAC Heat Exchanger*

The fundamental thought of air to water heat exchanger is that they utilize two different spaces where liquids are passing, and a segment which does the whole employment. The thing is that through the method for this parcel, the more sultry liquid dispenses with its abundance temperature towards the cooler one. As it were, the media's temperature climbs when in contact with the hot fluid, and the hotness is exchanged to the frosty liquid that runs on the opposite side of the unit.



There are various units that can be utilized to upgrade a HVAC system of any kind. Those that are likely the most prevalent are the air to water heat exchangers . The way in which these instruments work is perplexing however simple to fathom. Their motivation is to exchange the temperature from one segment of the framework to the next, amid different purposes, for example, bubbling and buildup.

### Special Features

- Compact design for easy placement and installation with base mounting brackets
- Simple, durable construction, including full enclosures
- Standard, integrated core guard provides for longer fin life and maintains high efficiency heat transfer
- Leak-proof joints



## Coils

When it comes to building coils for any application Fidvi Refrigeration Industries has the capability to meet your requirements. If you need a cooling or heating coil using water, steam, refrigerant or any other medium, we can build it for you. We build coils for replacement of existing coils or for new jobs, as well. We make standard copper tube / aluminum fin commercial coils and we build heavy industrial coils for process applications. You will be hard-pressed to come up with a job we can't handle.

We offer double circuit fin and tube type cooling coils, used widely in heavy industries including marine motor vessels. These are designed to offer the optimum level of heating and cooling levels desired. Further, our range of cooling coils is designed to maximize heat transfer, within the constraints of air pressure drop, across the cooling coil.



Fidvi Refrigeration Industries builds both standard steam and steam distributing coils for HVAC and industrial process applications. Standard steam coils are used when entering air temperatures are 40°F or above, and are constructed of 5/8" OD tubes. Tube thickness can vary from .025" wall to .049" wall, depending on the duty and steam pressure. Industrial applications might require 90/10 cupro-nickel or even steel or stainless steel tubes. The design of any steam coil is important, because it is imperative that condensate not collect in the coil. Most standard steam coils are opposite end connected and pitched within the casing to expedite condensate removal. It's also possible to build same end standard steam coils.

Steam distributing coils are tube within a tube design and are often referred to as “non-freeze” coils. This really is a misnomer, because under the right conditions, you can freeze any type of coil. Steam distributing coils are generally used when entering air temperatures to the coil are 40°F or below. Steam distributing coils can be manufactured in 5/8” OD w/ 3/8” inner tube or 1” OD w/ 5/8” inner tube. Steam is distributed down the inner tube and released periodically to the outer tube where it is returned to the discharge header.



The steam and condensate are distributed evenly across the face and tubes of the coil, and the steam in the inner tube keeps the condensate in the outer tube from freezing. 5/8” tubes can be .025” or .035” wall copper and 1” tubes can be .035” or .049” wall copper. When you have an application that requires a lot of outside air or very low air temperatures, you will generate lots of condensate (lbs./hr). Always use a 1” steam coil for preheat applications of this type, because there is more room between the outer and inner tube to evacuate the condensate.





Fidvi  
Refrigeration  
Industries

# THANK YOU

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