



Patels Airtemp (India) Limited



Infusing Expertise
Ensuring Perfection
Fulfilling Commitments

The Company

Patels Airtemp (India) Limited (PAT) commenced its ever progressing journey as design and manufacturing unit of process plant equipment with a range of Air-Conditioning, Refrigeration and Heat & Mass transfer equipments.

The present portfolio comprises of Shell & Tube Heat Exchanger, Air Fin Cooler, Pressure Vessel, Shell & Fin Tube Heat Exchanger, which makes PAT a single stop solution provider for multiple heat and mass transfer applications.

Along with the development of product design and product manufacturing applications, PAT in its journey of 50+ years, has continuously upgraded quality and product system by adhering to world's most recognized system like ISO 9001-2015, ISO 14001:45001 COMPANY, ASME (U2, U, S-Stamps).

While maintaining and upgrading the product capability and ability to design and manufacture as per latest codes, PAT acclaims to have few most critical applications of compressor coolers and many other applications utilizing Fin Tube technology.

Apart from Plain Tube Heat Exchanger, PAT has developed hands on expertise to design and manufacture Fined Heat Exchanger using various fins like Plate Fin, Extruded Fin, Crimped fins, Embedded Fin, Tension Wound Fin, etc.

PAT has established itself as the most reliable and resourceful organization with its modern manufacturing setup capable to handle medium to heavy equipment across a vast and versatile range.

50+

Years of Experience

12,000+

Equipment Supply

550+

Equipment Supply



Air Cooled Heat Exchangers

- 1500+ Bay
- 3500+ Bundles
- 200+ Modular Construction Supplied)



Columns - 37 Meter



Pressure Vessels
(1800+ Supplied)



Product Range

- Air Fin Cooler / Air Cooled Heat Exchanger
- Shell & Tube Heat Exchanger
- Ambient Air Heater for LNG Regasification
- Air Cooled Condenser
- Pressure Vessels, Separators, Drums, Columns & Deaerators
- Shell & Plate Fin Tube Heat Exchanger for Air & Gas Compressor
- Inter Coolers, After Coolers, Oil Coolers, CNG Coolers for Compressors
- Fin Tubes - Extruded, "G"-Type, "L"-Type, "LL"-Type, "KL"-Type and Crimped Fin
- Air Conditioning & Refrigeration Equipments: Condensers, Chillers, Cooling / Heating Coils, Fan Coil Units & Air Handling Units

Shell & Tube Heat Exchangers

- 4000+ Supplied



Shell & Plate Fin Heat Exchangers

- 3100+ Specialized Heat Exchangers designed & Supplied



Highest Parameters Achieved

Diameter	: 6,834 mm
Weight	: 180,000 Kg for single Heat Exchanger; 300,000 Kg for Stacked Heat Exchangers
Tubesheet Thickness	: 360 mm
Shell Thickness	: 110 mm
Header Thickness	: 90 mm
Tube Length	: 18,590 mm
No. of Tubes	: 9427 Nos. in a single Heat Exchanger
No. of Fin Tube Bundle	: 120 Nos. in a single Project

Design Ability

- Thermal design and Mechanical design with performance guarantee
- FEA & Fatigue Analysis
- 3D Modeling
- STADD Analysis
- Code of Construction: ASME Sec. I, III, VIII Div-1 & Div-2, TEMA, HEI, API-660, API-661, API-510, IS-4503, BS-5500, IBR, GOST/TR CU-Russia, DOSH-Malaysia, PED / CE-Europe, AD-2000 Merkblatt HPO

Softwares

- HTRI Exchanger
- PV Elite / Code Calc
- FE Pipe / Nozzle PRO
- ANSYS
- Creo
- STADD

METALLURGY CAPABILITY

1000+ Qualified Welding Procedures for Various Welding Metallurgies and Processes)

Exotic

Alloy 625/825,
Titanium,
Cu-Ni 90/10; 70/30,
Admiralty / Naval Brass,
Aluminum-Nickel-Bronze

Carbon Steel

Boiler quality,
LTCS with NACE,
HIC requirements,
All type of Clad construction

Non-Ferrous

Cu-Ni 90/10,
Cu-Ni 70/30,
Admiralty Brass,
Naval Brass,
Aluminum - Nickel Bronze

Low Alloy Steel

0.5 Mo,
1Cr - 0.5 Mo,
1.25 Cr - 0.5 Mo,
2.25 Cr - 1 Mo,
9 Cr - 1 Mo

Stainless Steel

Super Duplex SS (32750),
Duplex SS (31803, 32205),
Special Duplex (31254; 254SMO),
SS904L-904, SS410, SS321,
SS347, SS317L, SS316-316L,
SS304-304L



Ambient Air Heater



Air Cooled Heat exchanger
(System D)



Compressor Coolers



CNG Coolers



Deaerators



Air Handling Units

550+

Esteemed Clients

End Clients



PMC / EPC / LSTK



OEMs



Certification & Accreditation

Authorities



ASME "U" Stamp

ASME "U2" Stamp

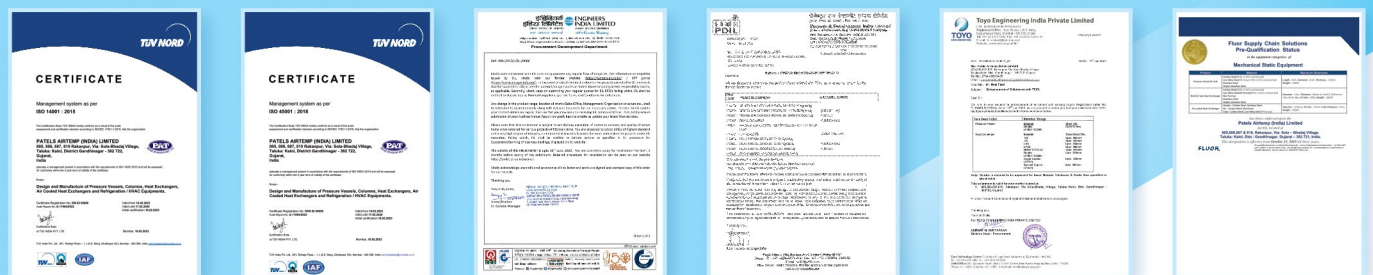
ASME "S" Stamp

"NB" Stamp

"R" Stamp

ISO 9001:2015

Clients



ISO 14001

ISO 45001

Engineers India Limited

Projects and Development India Limited

TOYO Engineering

FLUOR

Industry We Serve



Oil & Gas



Petrochemicals



Thermal Power



Nuclear Power



Fertilizers



Chemicals



Pharmaceuticals



Textiles



Cement



Compressor OEMs



Patels Airtemp (India) Limited

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ISO 9001:2015 COMPANY
ISO 14001:45001 COMPANY



ASME "U" / "U2" / "S"
National Board "NB" / "R"
Member of: HTRI - USA