



COOLING TOWERS FOR THE HVACR INDUSTRY



PAHARPUR LEADS



Paharpur Cooling Towers is No.1 in Wet & Dry Cooling technology. We lead with a wide range of truly unique cooling solutions that deliver matchless performance, contribute to your sustainability and elevate production standards. We come to you with a long history of constant innovation and engineering expertise; there are virtually no cooling challenges that we cannot overcome.

We have consistently driven industries, enhanced production capacities and tackled challenges effectively with our range of customised cooling solutions for them. In fact, we are the only manufacturers in the world with the complete range of process cooling technology. When you are dealing with Paharpur, you know you are dealing with a world leader because we can provide you with solutions that nobody else can.



PAHARPUR *LEADS*

Paharpur Cooling Towers is the world's only manufacturer with the complete range of wet & dry cooling technology. This makes us especially capable of providing the ideal customised solution for you.

NO.1

IN WET & DRY COOLING TECHNOLOGY

62,000+
installations worldwide

In locations at
-50°C to +50°C

With a total installed capacity of
11,080 billion
litres per day

Paharpur Cooling Towers' remarkable journey to the pinnacle of cooling tower manufacturing started in 1957. Over the years, we have designed, produced, customised and refined our

products to deliver high performance inspite of changing operating conditions and our products have driven the productivity of industries across the world.



ONLY PAHARPUR

OFFERS YOU THE ENTIRE RANGE OF COOLING SOLUTIONS & SERVICES

Your building can benefit greatly with a Paharpur cooling tower. Reliable and precise performance will unburden your HVACR system, reduce operating costs and elevate your commercial environment.

India's largest airports- Delhi, Bombay, Kolkata, Chennai and other metros have relied on Paharpur. In fact, the entire Delhi Metro Rail runs on Paharpur towers.

Over the last 6 decades, Paharpur has consistently delivered some of the most innovative solutions to challenging projects all over the world. The most prestigious companies the world over rely on us because we are dedicated to high thermal performance

and accuracy in design & manufacturing. With in-depth understanding of your process and our technology, Paharpur is equipped to provide you with customisations which turn operational challenges into operational advantages.

To build a truly green building and obtain the highest ratings, you need a cooling solution that reduces energy consumption but not at the cost of performance.

As founding member of the Indian Green Building Council (IGBC), Paharpur is best equipped to help you build a truly smart building.

PAHARPUR CONTRIBUTES GREATLY TO

GREEN BUILDINGS

Cooling systems in commercial buildings can be challenging. You require a combined solution that will meet the challenge of strict sustainability standards, long-term concerns and high energy costs. With Paharpur, you can achieve them all and build the commercial space of the future.



Typically, HVACR systems use more than 40% of a commercial building's energy. You need a solution that turns the table on cooling system economics

and gives you complete control. Paharpur can greatly contribute to the technology of the future; we have heavily invested in finding

sustainable solutions and our energy efficient cooling systems will contribute to the making of truly smart buildings and consequently, smart cities.

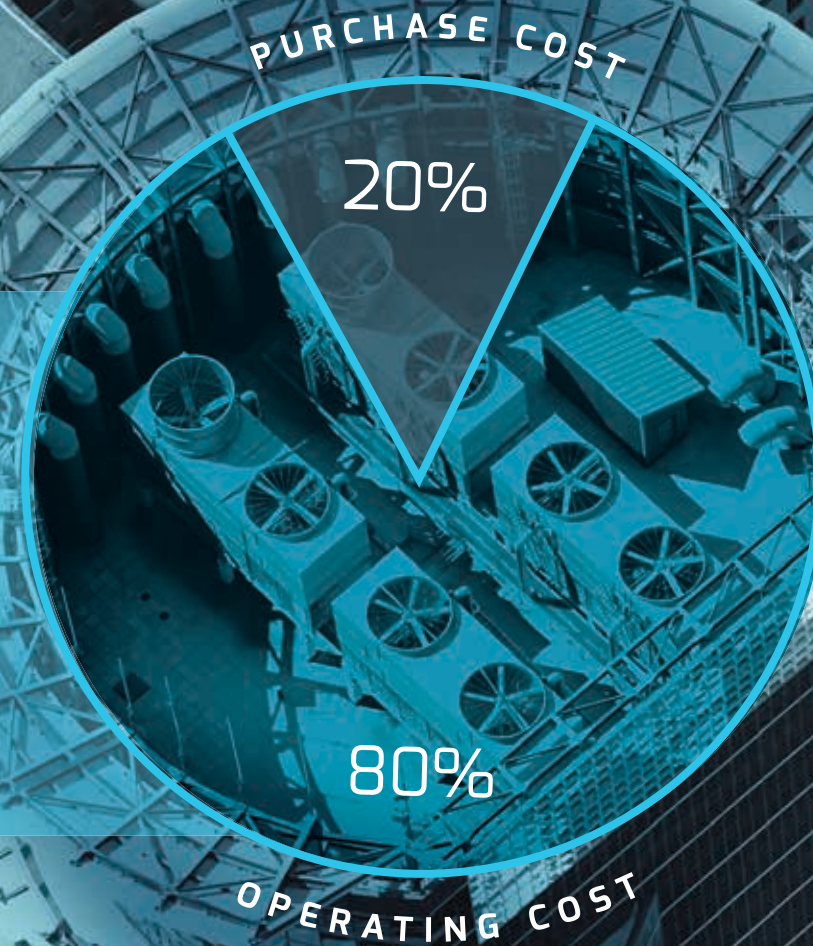
When operating costs comprise 80% of the life-cycle-cost, energy savings become a vital concern.

SAVE ENERGY EVERYDAY

Paharpur helps you save power in two ways-

- Reliable and precise thermal characteristics maintain high efficiency and unburden the cooling system, hence conserving power and saving operating cost.
- With the complete range of cooling technology, we are the only ones who can give you complete control with highly customised solutions tailor-made just for you.

LIFE-CYCLE COST





Paharpur's Lowproach® towers are the highest performing towers in the industry. Only Paharpur can promise you 1°C approach.

Approach
as Low as
1°C

A 1°C Approach tower helped Paharpur Business Center achieve a Platinum LEED rating. It was India's first retrofitted building to receive such a rating.

UNPARALLELED

COOLING TOWER PERFORMANCE

Put simply, Approach is a measure of cooling tower performance. Lower the approach, better the performance and lower the chiller power consumption. Our Lowproach® towers are

pioneering products that deliver matchless performance, bring down operating costs and are completely dependable even in the toughest conditions.

- Reduced chiller power consumption.
- Unique thermal design for high performance.
- Reduce energy costs every day.
- Less than 12 month payback period.

SOLUTIONS FOR HVACR SYSTEMS

As an industry leader we provide the best solutions to our clients. This involves in-depth understanding and analysis of your operating conditions and Paharpur goes the extra mile to ensure you make the most out of your cooling system.

Our range of products for the
HVACR Industry

CF3 | OXF-30K | AQ-3800 | 6.1KF | CF-I | CF-II | 9KF | QF-20K

All our towers are available in multi-cell configuration for higher capacities.

Series
CF3

OUTPERFORMING THE COMPETITION

This CTI-certified asset is just what you need to ensure high performance at low operating costs.

The Series CF3 reduces chiller power consumption and hence operating costs. Over the years, enhancements to its integrated system design have made the CF3 a heavy-duty, energy efficient and reliable performer unsurpassed in its class.

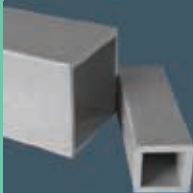


- Complete pultruded FRP structure.
- Gear reducers with more than 95% efficiency.
- Integrated system design.
- Highly reliable thermal performance.

FEATURES

Draught Type	Flow type	Material of construction	Water Flow rate (cmh/cell)	Fill type	Drive type
Induced	Counterflow	FRP	65 - 1000	Film	Gear

Pultruded FRP Structure prevents corrosion and increases life.



PAHARPUR **LEADS**

Series
OXF-30K

PERFORMANCE FIRST

Minimum
Downtime

India's only
CTI-certified
crossflow
tower.

The OXF-30K has a one-of-a-kind octagonal design that sets it aside as a unique product which blends seamlessly in your advanced commercial environment. Owing to its quad-flow design, it has a very low profile, which presents its

advantages in situations where a low height tower is required. An access hatch through the bottom provides access to the tower even during operation and makes online maintenance possible- a great asset which minimises downtime.



- CTI-certified.
- Highly efficient fill system.
- Unique octagonal design.
- Proven fill with integral louvres and drift eliminators.
- Online maintenance.
- Quad-flow design allows low profile.

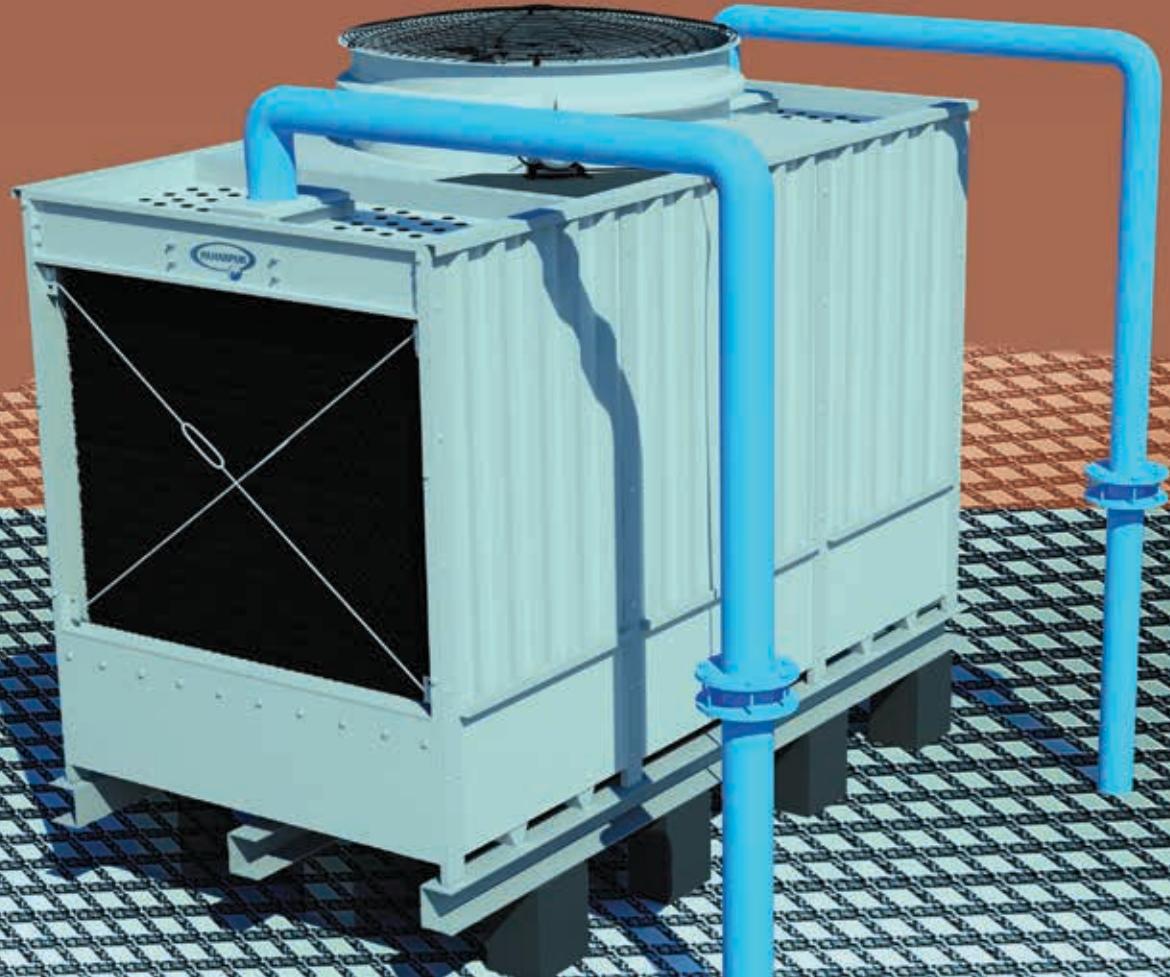
FEATURES


Draught Type	Flow type	Material of construction	Water Flow rate (cmh/cell)	Fill type	Drive type
Induced	Crossflow	FRP	25 - 1250	Film	Gear

PAHARPUR LEADS

Series
6.1KF

MAXIMUM COOLING IN MINIMUM FOOTPRINT AREA



 Repeating
Chevron
pattern ↓
reduces drift to
0.005%
of water flow rate

Turning
operational
challenges into
operational
advantages.

This double-flow crossflow tower exemplifies Paharpur's dedication to high quality- our proven mechanical equipment is designed and produced in-house, specifically for cooling tower operation.

Target nozzles uniformly distribute water over efficient fill that reduce drift, and fan pitch can be adjusted to optimise utilisation of rated power.

- GRP and hot-dip galvanized steel prevent corrosion, elongate life.
- Reduces drift to less than 0.005% of water flow.
- Adjustable blade pitch to maximise utilisation of rated power.
- Easy customisation to changing water flow rates.
- Online maintenance.

FEATURES

Draught Type	Flow type	Material of construction	Water Flow rate (cmh/cell)	Fill type	Drive type
Induced	Crossflow	FRP	40 - 1100	Film	Gear

PAHARPUR **LEADS**

Series
CF-I

THE ULTIMATE COMPACT & MODULAR COOLING SOLUTION



High efficiency
and low
downtime; ideal
for commercial
spaces.

Paharpur designed the CF-I with the sole objective of attaining maximum cooling in a minimum plan area. Our R&D team has conceived and produced a PVC fill with a unique repeating chevron configuration that minimises

pressure loss and maximises cooling capacity per volume with lower energy consumption.

- Unique fill design with a chevron pattern to maximise cooling.
- Easily available spares.
- Low pressure loss results in economic operation.
- Long service life.
- Resistant to water borne contaminants.

FEATURES

Draught Type	Flow type	Material of construction	Water Flow rate (cmh/cell)	Fill type	Drive type
Induced	Counterflow	FRP	10 - 200	Film	Direct

PAHARPUR **LEADS**

Series

CF-II

UNMATCHED

PRECISION & RELIABILITY

Integrated
system design
enhances
performance &
reduces
downtime by
simplifying
maintenance.

We leverage our manufacturing experience to provide effective cooling solutions like the CF-II to our clients. CF-II's fibreglass and HDG build protects against corrosion from dirty water and elongates an already long service life. An especially efficient gearbox and time-tested mechanical equipment guarantee the

high performance that you have come to expect from Paharpur. Vacuum formed PVC sheets are solvent welded to provide maximum heat transfer with minimum pressure drop and pump head. As you will see, everything about the CF-II is designed to provide maximum benefits to you.



- Adjustable blade pitch to maximise utilisation of rated power.
- Gear reducers with more than 95% efficiency.
- Spray nozzles are high temperature resistant.

FEATURES

Draught Type	Flow type	Material of construction	Water Flow rate (cmh/cell)	Fill type	Drive type
Induced	Counterflow	FRP	60 - 640	Film	Gear/Direct

PAHARPUR **LEADS**

Series
**AQ-
3800**

MINIMISING DOWNTIME

MAXIMISING PROCESS OPTIMISATION



Unique uni-flow design for minimal pressure drop.

This tower's design simplifies maintenance while still delivering high performance, making it the standard of packaged cooling towers. Its latest models consume less energy, improved fill performance and are made of corrosion-free fibreglass.

- Integrated system design.
- Mechanical parts can be fully inspected without climbing the tower.

FEATURES

Draught Type	Flow type	Material of construction	Water Flow rate (cmh/cell)	Fill type	Drive type
Induced/ Forced	Crossflow	FRP	3 - 200	Film/Splash	Belt

Horizontal discharge allows discharge to be faced away from your building.

PAHARPUR LEADS

Series
9KF

STATE-OF-THE-ART COUNTERFLOW COOLING TOWER DESIGN

Turning
operational
challenges into
operational
advantages.

The 9KF is made of pultruded FRP, which is far superior to HDG steel when it comes to corrosion resistance. This counterflow series exemplifies Paharpur's dedication to

high quality and is the result of decades of continuous design improvements. Fan cylinders, spray nozzles and PVC fill are designed to maximise cooling and deliver high efficiency.

- Pultruded FRP prevents corrosion and increases life.
- Reduces drift to less than 0.005% of water flow.
- Adjustable blade pitch to maximise utilisation of rated power.

FEATURES

Draught Type	Flow type	Material of construction	Water Flow rate (cmh/cell)	Fill type	Drive type
Induced	Counterflow	FRP	65 - 1000	Film	Gear

Pultruded FRP Structure prevents corrosion and increases life.

PAHARPUR LEADS

Our maintenance services are aimed at minimising downtime and maximising thermal efficiency.

Only original spare parts can guarantee the high performance and thermal reliability you have come to expect from us.

Paharpur leads the industry not just with expert manufacturing but also with a complete 360° service portfolio that revolves around preserving high performance and minimising downtime. Our services go well beyond just repair and maintenance.

Paharpur can conduct service visits to foresee and forestall operational hurdles, increase cooling capacity and even upgrade your cooling system. Regular maintenance and service visits allow us to foresee and forestall operational hurdles. .

360° SERVICE & SUPPORT

Rely on the industry leader for world-class service, anytime, anywhere. We produce all spares and components in-house

and an integrated system design ensures that the system performs seamlessly.

PAHARPUR LEADS

SOME OF OUR PROMINENT HVACR INSTALLATIONS

Paharpur's HVACR end-clients read like the who's-who of their industries. Some of our prominent installations amongst tens of thousands worldwide:

Metro Railways

Paharpur serves the entire cooling needs for:

Jaipur Metro
Lucknow Metro
Kolkata Metro
Delhi Metro

Hospitals

Lilavati Hospital, Mumbai
Ram Manohar Lohia Hospital, New Delhi
St. John's Medical College Hospital, Bengaluru
Medica Superspecialty Hospital, Kolkata

Shopping Malls

Ambience Mall, Gurgaon
Quest Mall, Kolkata
South City Mall, Kolkata
Spencer Plaza, Chennai
Inorbit, Mumbai

Airports

Indira Gandhi International Airport, New Delhi
Dubai International Airport, Dubai
Netaji Subhas Chandra Bose International Airport, Kolkata
Rajiv Gandhi International Airport, Hyderabad

Hotels

The Taj Mahal Palace & Tower, Mumbai
Shangri-La's - Eros Hotel, New Delhi
JW Marriott, Kolkata
ITC Sonar Bangla, Kolkata

Universities

IIT, Chennai
AIIMS, New Delhi
IIM, Kolkata



Your Full-Service
Cooling Technologies Company
www.paharpur.com

INDIA SALES OFFICES

BENGALURU

Paharpur House
41 Cunningham Road Cross
Bangalore 560052
Ph: +91-80-2226 5566-7
+91-80-2234 1911
Fax: +91-80-2225 3999
E-Mail : pctblr@paharpur.com

MUMBAI

506 Navkar Chambers, 5th Floor
'B'Wing, Andheri-Kurla Road
Andheri(East)
Mumbai 400059
Phone : +91-22-4043 2432
+91-22-2859 5924-26
Fax : +91-22-2851 4913
E-Mail : pctbom@paharpur.com

CHENNAI

1st Floor, New No. 25 (Old No. 12)
L B Road, Adyar
Chennai 600020
Ph : +91-44-2490 0275
+91-44-2490 3109
+91-44-2446 2313
Fax : +91-44-2490 3117
E-Mail : pctmaa@paharpur.com

NEW DELHI

806 Ashoka Estate
24 Barakhamba Road
New Delhi 110001
Ph : +91-11-2335 7846-50
+91-11-2331 0826
Fax : +91-11-2335 7851
E-Mail : pctdel@paharpur.com

HYDERABAD

3rd Floor, "The Grand"
6-3-1090/B/4, Raj Bhavan Road
Somajiguda
Hyderabad 500082
Ph : +91-40-2331 7081-3
Fax : +91-40-2331 7081
E-Mail : pcthyd@paharpur.com

VADODARA

Plot No. 132 KV-I
Manjusar-Savli GIDC
Ta. : Savli, Dist. : Vadodara 391775
Gujarat
Ph : +91-2667- 264331, 264332
Fax : +91-2667-264333
E-Mail : pctbdq@paharpur.com

PAHARPUR LEADS



PAHARPUR COOLING TOWERS LTD.

Paharpur House
8/1/B Diamond Harbour Road
Kolkata 700027, India
Ph : +91 33 4013 3000
Fax : +91 33 4013 3499
pctccu@paharpur.com

SPX DRY COOLING BELGIUM SPRL.

Avenue Marcel Thiry
B-1200 Brussels, Belgium
Ph : +32 2 761 61 11
info@spxdrycooling.com

www.paharpur.com

GLOBAL OFFICES

EMEA – SWITZERLAND

Paharpur Europe SA
Viale San Salvatore, 10
Ch-6902 Paradiso-Lugano
Switzerland
Ph: + 41 91 980 42 06
pct.europe@paharpur.com

EMEA – TURKEY

Paharpur Sogutma Teknolojileri Ltd Sti
Sezer Dogan Sok. No:20 D:11
35210 Konak, Izmir, Turkey
Ph: +90 (232) 483 0 779

AMERICAS – USA (BRIDGEWATER)

SPX Dry Cooling USA, LLC
1200 US Rt. 22 East, Suite 1
Bridgewater, NJ 08807, USA
Ph: +1 908 450 8008

AMERICAS – USA (DENVER)

Paharpur USA, Inc.
Denver International Business
Center
18300 East 71st Avenue, Suite 135
Denver, CO 80249, USA
Ph: +1 (303) 989-7200
Fax: +1 (720) 962-8400
info@paharpurusa.com

AMERICAS – USA (OVERLAND PARK)

SPX Dry Cooling USA, LLC
7450 West 130th Street
Suite 310, Overland Park
KS 66213, USA
Ph: +1 913 685 0009

APAC – CHINA

SPX Dry Cooling Beijing
Room 402, Block B
First Shanghai Center
No. 39 Liangmaqiao Road
Chao Yang District
Beijing 100125, China

APAC – SOUTH KOREA

SPX Dry Cooling Korea
11F, Samsung Life Insurance Yoido Building
24, Kukjegeumyung-Ro 2-Gil
Yeongdeungpo-Gu
Seoul 07325, South Korea
Ph: +82 (0)2 6297 5030