

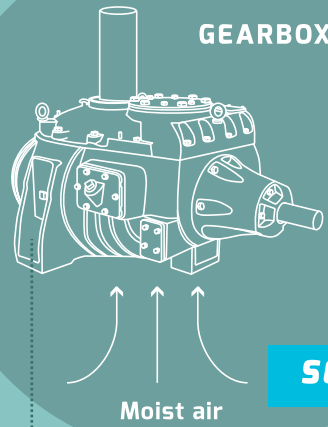
MAXIMUM EFFICIENCY. MINIMUM MAINTENANCE.

PAHARPUR'S SOLUTION

Efficient gearboxes made specifically for cooling tower duty help maintain fan speed and have long service lives.

ADVANTAGES

Long life.
Steady performance even in rough operating conditions.



SERVICE FACTOR >2.0

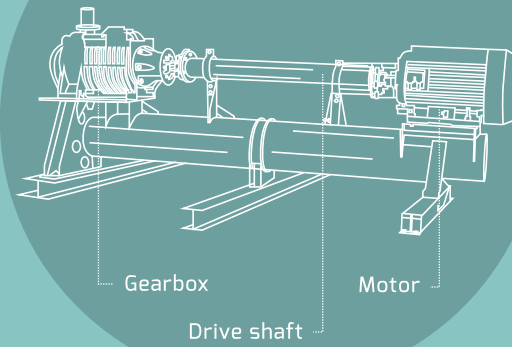
Moist air can be damaging to mechanical equipment. Paharpur carefully selects raw materials to produce gear reducers with, for long life and reliable operation.

Materials of construction

Carbon fibre | HDG Steel | Cast iron

Long &
efficient
service life

DRIVE TRAIN



ADVANTAGES

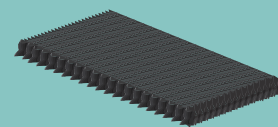
Consumes less power compared to direct-drive systems
Longer lives compared to direct-drive systems

REDUCE FAN POWER CONSUMPTION

Drift Eliminators and Fill are tuned together for better performance and economic operation

DRIFT ELIMINATOR

The eliminator discharge angles aid in exhaust of moist air and further unburden the fan



ADVANTAGES

Low pressure drop
Reduction in fan power consumption
Low drift loss **Only 0.005% of flow rate**

MOST EFFECTIVE
AT VELOCITY V

Maximising
overall
efficiency

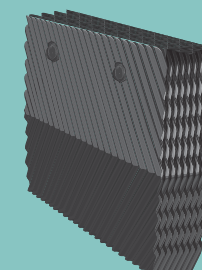
MOST EFFECTIVE
AT VELOCITY V

Drift eliminators are designed such that they are effective at the air-velocity that at which the fill is most effective



FILL

Cross-fluted fill design for maximum cooling in minimum area



MAXIMUM COOLING CAPACITY PER UNIT VOLUME

Uniformly distributed hot water is accurately cooled on efficient, corrugated PVC fill that provides the wetted surface necessary for proper heat transfer.

Customisation & Optimisation

Spray nozzles come in many varieties (as opposed to standard configurations with other vendors)

This allows Paharpur to customise and optimise the water distribution system properly

Due to complete manufacturing control, Paharpur provides highly economic operation

ADVANTAGES

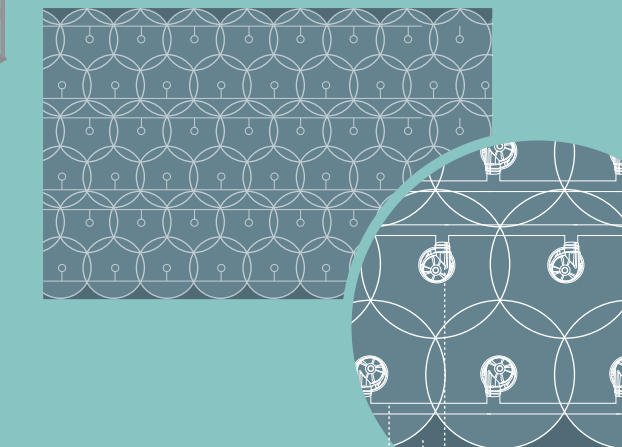
Maximum cooling efficiency per unit volume

Equal distribution of water throughout the fill area

Well-balanced Capital & Operating costs

Incoming air is fully utilised.

Spray area entirely covers the fill area

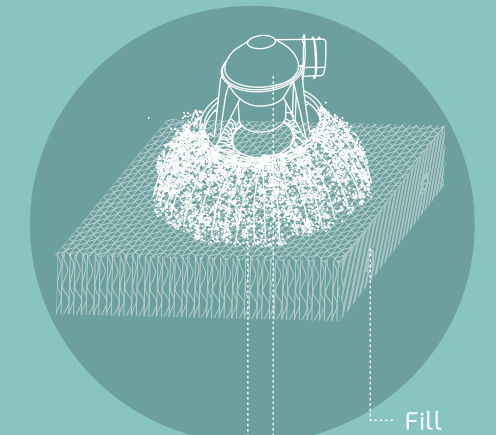


Incoming hot-water pipe
Dry spots
Spray area
Spray nozzles

The distribution system is designed to ensure that no dry spots are present

Uniform
water
distribution

Less dry area = More efficiency
Paharpur's Solution:
Fill height adjusted to compensate for pressure loss.



Uniformly distributed hot-water
Spray nozzle
Nozzles are designed to uniformly distribute water over maximum area