Kelvion

THERMAL SOLUTIONS

SINGLE TUBE
HEAT EXCHANGER

Kelvion AFX HDG

STANDARDIZED AIR FIN COOLER SOLUTION

DESIGN & FUNCTION

Kelvion AFX HDG offers customers a standardized and modular design leading to significant cost savings and shorter quotation and delivery times.

Its robust architecture and precision-engineered components have proved to be a reliable year-round cooling partner in heavy industry, power, chemical and petrochemical applications around the world. Up to seven modules can be combined into one cooling unit. Two different draft options and flow options provide flexibility to suit a range of operational requirements.

The patented shape of the carbon steel CW tubes means lower power consumption on air side. This reduces noise levels and CO_2 emissions and saves on operational costs. The hot dip galvanizing offers the renowned corrosion protection.

BENEFITS

- **MODULAR & COMPACT DESIGN**
- **FAST QUOTATION & DELIVERY**
- **LOWER NOISE**
- **LESS POWER CONSUMPTION**

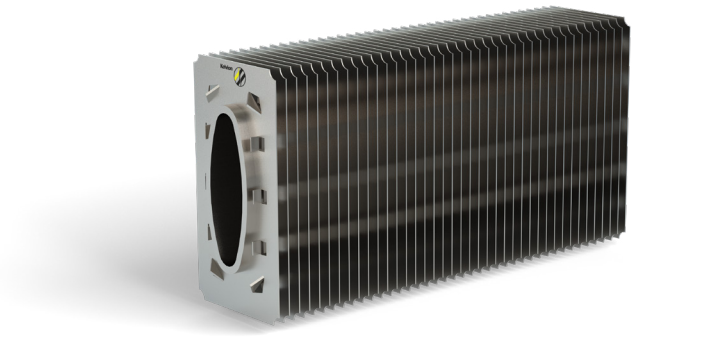
MARKETS

HEAVY INDUSTRY · POWER · CHEMICALS · PETROCHEMICAL

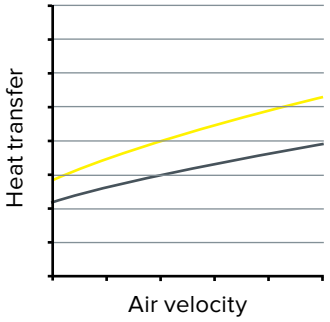
FLUID

- WATER
- WATER + GLYCOL
- STEAM
- OIL
- HYDROCARBONS

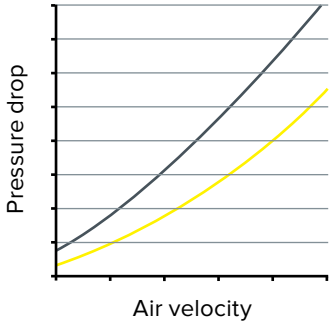
CW TUBES



HEAT TRANSFER



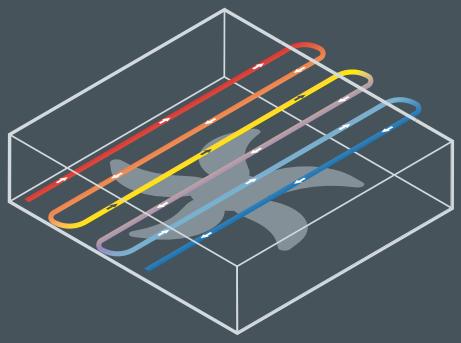
PRESSURE DROP



CONVENTIONAL ROUND FINNED TUBE

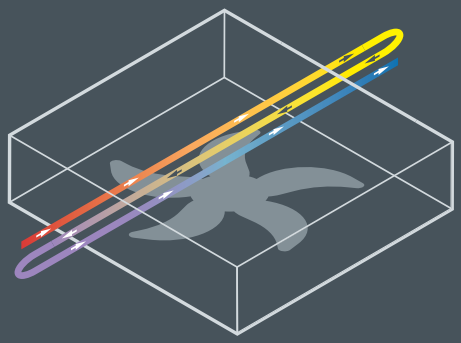
CW TUBE

FLOW OPTIONS



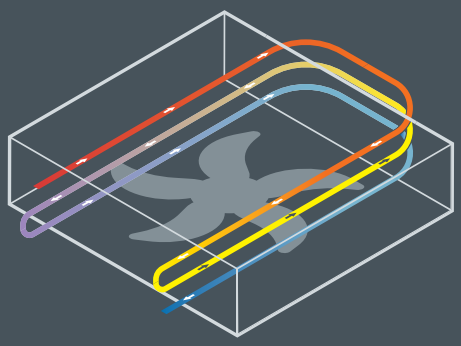
CROSSFLOW

- Tube rows 2 – 4
- Passes 1 – 11



COUNTERCURRENT FLOW

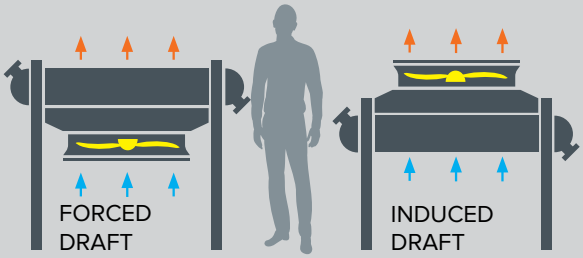
- Tube rows 2 – 4
- Passes 2 – 4



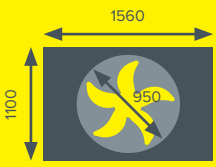
COUNTERCROSS FLOW

- Tube rows 2 – 4
- Passes 4 – 8

DRAFT OPTIONS



FAN UNITS



Number of fan units	Plant length [mm]
1	1.570
2	3.230
3	4.890
4	6.550
5	8.210
6	9.870
7	11.530

FURTHER FEATURES

DESIGN PRESSURE
- 16 BAR
(Higher pressures on request)

DESIGN TEMPERATURE
- 200 / 300 °C

INLET & OUTLET NOZZLE
- DN 65
- DN 80 (PN40)

NOISE SPL @ 1M PER ITEM
- ≤ 80 dB (A) INDUCED DRAFT
- ≤ 75 dB (A) FORCED DRAFT

MATERIALS
- HEADERS: C-STEEL
- TUBES: C-STEEL (HDG)

www.kts.kelvion.com