Kelvion

THERMAL SOLUTIONS

Kelvion AFX Alu

STANDARDIZED AIR FIN COOLER SOLUTION

DESIGN & FUNCTION

The AFX Alu offers nothing new but a standardized and modular design leading to short quotation and delivery times, a short payback period and lower CAPEX.

Reliable Components proven in year long operation all over the world form the architecture of AFX Alu by bringing customized technologies to a standard product. Its' robust design meets the requirements of the international standard API 661. Choose from three different frame heights, low, medium and high cases to meet various environmental conditions and up to 25 fan modules for your cooling.

Groovy fins feature a patented shape which maximises the heat exchange surface. This geometry allows an improvement in heat exchange of 8% to 15% for the same power consumption while providing optimal fouling resistance and cleaning capability.

BENEFITS

- ▶ **API 661 STANDARD**

- ▶ **PRESSURE VESSEL DESIGN ACCORDING ASME VIII DIV. 1 WITH U-STAMP /CE**

- ▶ **MODULAR & COMPACT DESIGN**

- ▶ **FAST QUOTATION & DELIVERY**

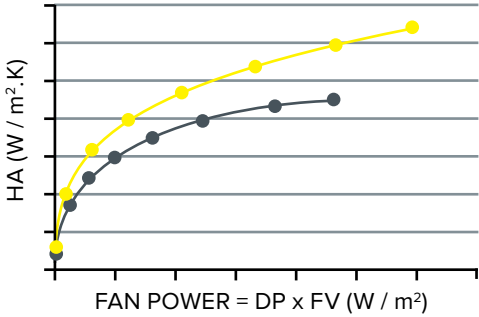- ▶ **TRANSPORTABLE BY TRUCK / CONTAINER**
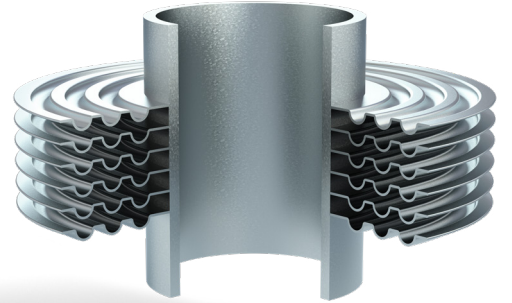
- ▶ **LOW NOISE**

POWER

OIL & GAS

▶ **TURBINE COOLING**
▶ **COMPRESSOR COOLING**
▶ **...**

GROOVY FINS

HA (W / m².K)

FAN POWER = DP x FV (W / m²)

● **GROOVY EMBEDDED FINS**

● **STANDARD EMBEDDED FINS**

1" tube diameter
2"1/2 tube pitch
10 FPI fin density

DESIGN

COMBINE 1 TO 25 MODULES
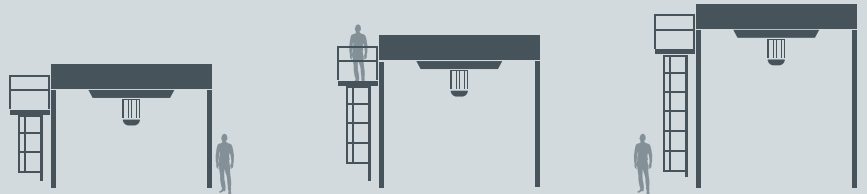
1 fan module
2.74m / 9 ft. fan

5 bays with 5 fan modules in line and over
18.3 m / 60 ft. tube length

SELECTED HEIGHTS ACC. TO API 661 AIR ENTRIES

3.1 m / 10.17 ft. height

4.1 m / 13.45 ft. height

5.1 m / 16.73 ft. height

DESIGN DATA

DESIGN TEMPERATURE
▶ **UP TO 130 °C**
▶ **UP TO 266 °F**

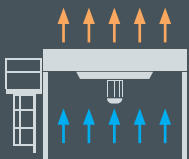**DESIGN PRESSURE**
▶ **UP TO 16 BAR G**
▶ **UP TO 232 PSI**

MEDIA
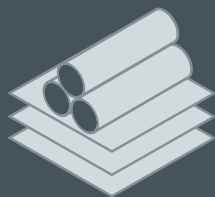▶ **WATER**
▶ **WATER / GLYCOL**
▶ **LUBE OIL**

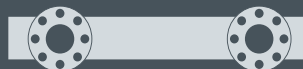Transportation by truck with dismounted motors and steel structure possible.

FURTHER FEATURES

FAN DRAFT:
Forced

HEADERS & TUBE MATERIAL:
Carbon steel
Stainless steel

HEADER TYPE:
Plug Header with standard design

INLET & OUTLET NOZZLES:
2 x 6'' Sch 80
(allowable loads 2 x API 661)