

# ALUMINIUM CORE HEAT EXCHANGERS

## FluidAIR™

### Aluminium Core Heat Exchangers

#### ONLY FROM FLUID DYNAMICS

The FluidAIR® series of Aluminium Core Heat Exchangers provides ideal cooling solutions for a wide variety of applications where air is the cooling medium.

FluidAIR® Aluminium Core Heat Exchangers are manufactured in Australia using high quality aluminium core. They are built to last.

For over 30 years our Aluminium Core Heat Exchangers have been giving superb service to industry nationwide.

We are the exclusive dealer for AKG Gruppe, Germany's leading manufacturer of aluminium core since 1919. Made to withstand up to 26 Bar pressure - you will not get better.

We custom make our aluminium core heat exchangers to fit your machinery and we offer a prompt after market service that can provide a high quality cooler at a fraction of OEM prices for almost any application.

OEMs too can benefit from our expert service. We supply many OEMs with JIT products custom designed for their valuable machinery.

Our FluidEX® range can be manufactured with or without fans—12V, 24V, AC, DC, 3 phase, electric or hydraulic.



- **PROVEN RELIABILITY • PROVEN PERFORMANCE •**

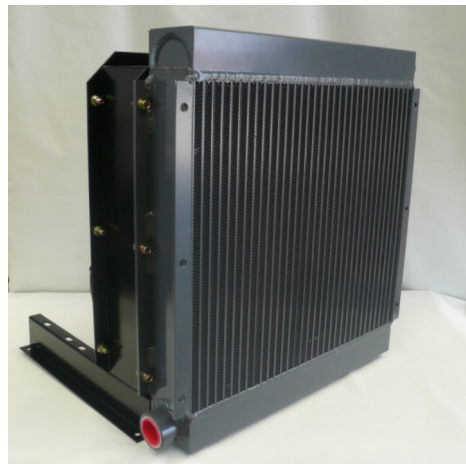
*We also clean, test and refurbish heat exchangers and oil coolers*

## High Performance Heat Exchangers

# FluidAIR™

## FEATURES :

- **CUSTOM BUILT** to your requirements or **STOCK**
- High-Performance cooling assemblies
- DC, AC, 3 Phase or hydraulic motor powered fans
- The heat is transferred from the medium to be cooled to the ambient air
- Cooler can be universally used in hydraulic oil, transmission oil, engine oil, lubricating oil and coolant circuits
- For the cooling of mineral oil, synthetic oil, biological oil as well as of HFA, HFB, HFC and HFD liquids and water with at least 50 per cent of anti freeze and anticorrosive additives (other media available)
- Can be exposed to operating pressures of up to **26 bar**

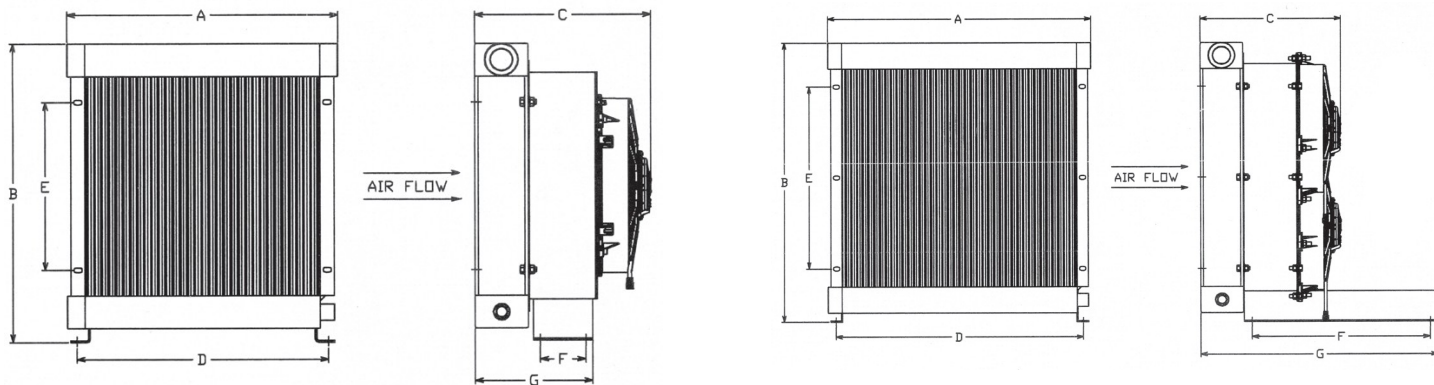


## BENEFITS:

- Largest and most comprehensive series of mobile hydraulic coolers
- Highly flexible, complete, ready-to-use cooling packages or custom made
- Available from stock or custom built at short notice
- As a standard, equipped with anti-clogging cooling air fins
- Highest quality ensured by professional engineering and in-house manufacture.
- Compact and robust design field tested during many years of use in rugged real life conditions
- Best heat transfer results per given cooler size due to comprehensive research and development

**High Performance Heat Exchangers**

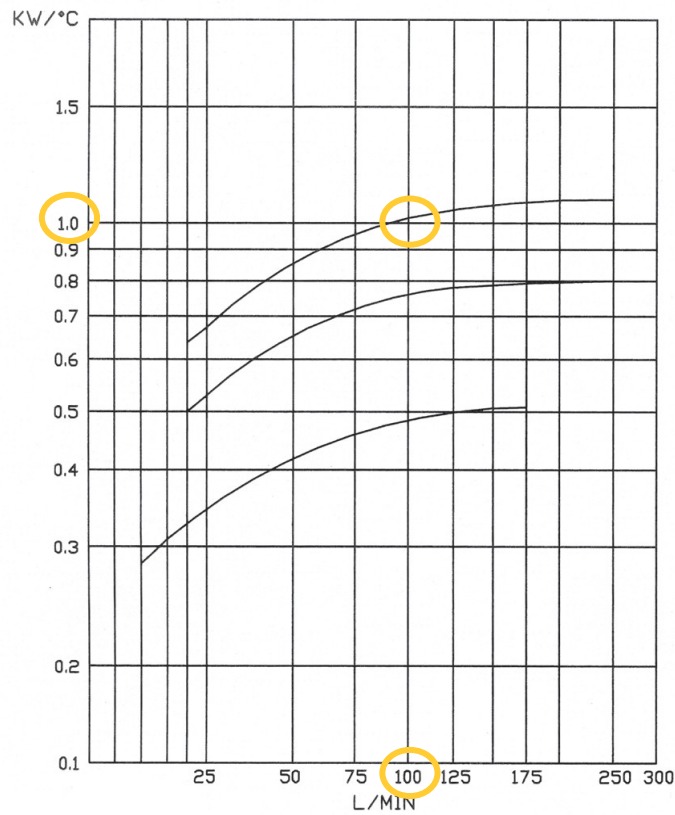
**STOCK MAXI COOLERS AVAILABLE WITH OR WITHOUT FANS**  
**DIMENSIONS & PERFORMANCE CHARTS**



MAXI TYPE	A	B	C	D	E	F	G	½ PASS	12V / 24V	MAX WORKING PRESSURE <b>26 BAR</b>
30	382	420	312	352	214	80	206	✓	✓	1½' BSP PORTS (X3)
40	479	545	310	445	306	80	206	✓	✓	½' BSP DRAIN (X1)
50	584	640	310	548	417	395	526	✓	✓	ALL DIMENSIONS (mm)

**Maximum working pressure 26 Bar**

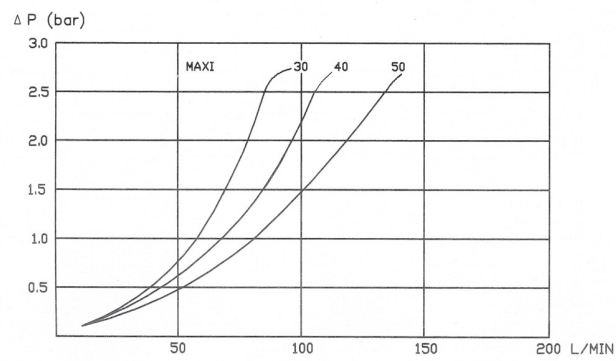
**PERFORMANCE GRAPH**



**Performance and pressure drop based on oil viscosity 30cSt at 55°C**

↓ Pressure Drop Graph below

The graph shows pressure drop through each cooler size.



← Graph to the left shows specific performance in kW/°C.

**Example**

Oil flow 100L/min

Max. oil temp. 65°C

Ambient air temp. 30°C

Heat dissipation

Maxi 50 = 1.0 kW/°C x 35° (65°C - 30°C) = 35 kW

Oil Flow rates

Up to twice the published flow rates can be accommodated on single flow units if required.

**High Performance Heat Exchangers**



## Fluid Dynamics *- a company you can trust*

Since 1981 Fluid Dynamics has been designing, custom building and supplying heat exchangers of exceptional quality to industry throughout Australasia and the Pacific.

Fluid Dynamics is a fully certified **ISO 9001:2008** company and is proud to be the first company in Australia to sign up for the rigorous **Twenty First Century Supply Chains (SC21)** programme. SC21 is an initiative of the Australian Government developed to ensure Australian Defence and other industries are served by suppliers who are committed to the continuous improvement of their products and services to ensure the needs of all customers are met properly and promptly.

Fluid Dynamics has the capacity to design, custom build and supply heat exchangers for almost every application.



### Fluid Dynamics Pty Ltd

Heat Exchangers since 1981

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**High Performance Heat Exchangers**