



# Fluid Dynamics

Heat Exchange Solutions since 1981



Quality  
Endorsed  
Company  
ISO 9001 Lic 24083  
SAI Global

## Marine

### Fluid Dynamics

*- a company you can trust.*

Fluid Dynamics has an extensive range of heat exchangers ideal for Marine applications and suitable for all sizes of ships, fishing boats, ferries, work boats and pleasure craft  
*... anywhere in Australia*



### Custom Built Finned Tube Charge Air Coolers

Superbly manufactured using patented technology which ensures an amazingly precise mechanical bond between the fins and the tubes.

Ideal for Charge Air Coolers for any sized diesel engine. Copper or Copper/Nickel Tubes, Copper Fins and Rolled Naval Brass Tube Sheets ensure a high quality robust unit suitable for the most demanding marine environment.

### Custom Built Shell & Tube Heat Exchangers

Fluid Dynamics manufactures Heat Exchanger Tube Stacks to original specifications using the highest quality materials and manufacturing techniques. We build them to last to ensure maximum reliability.

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

**High Performance Heat Exchangers for Marine Applications**

# FluidEX<sup>TM</sup>

## FluidEX® Shell & Tube Heat Exchangers

### ONLY FROM FLUID DYNAMICS

The FluidEX® series of Shell and Tube Water Heat Exchangers provides ideal cooling solutions for a wide variety of Marine applications.

FluidEX® Shell & Tube Heat Exchangers are manufactured using floating tube stacks that prevent premature failure as a result of thermal expansion fatigue and allow easy cleaning.

For over 30 years our compact heat exchangers have been giving superb service to the marine industry worldwide.

Fitted with Gun Metal Headers for Marine use, FluidEX® heat exchangers come with superior Viton O rings. We individually test each unit and assemble it to your requirements.

FluidEX® Marine units are manufactured from 90/10 Copper/Nickel Tubes with Naval Brass Tube Plates. For use in heavily polluted waters the tubes can be upgraded to 70/30 Copper/Nickel.

Standard units incorporate extruded aluminium shells but other metals are available.

FluidEX® offers ex-stock availability for our standard product range of Shell and Tube Marine Heat Exchangers, with a short lead time for special applications.

If you want the best heat exchanger for your craft you cannot get better than FluidEX®.

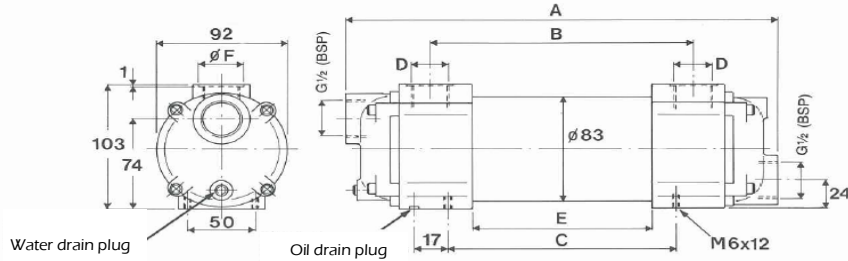


## FluidEX® DIMENSIONS

Larger sizes also available—please enquire

# FluidEX™

### 2300 SERIES

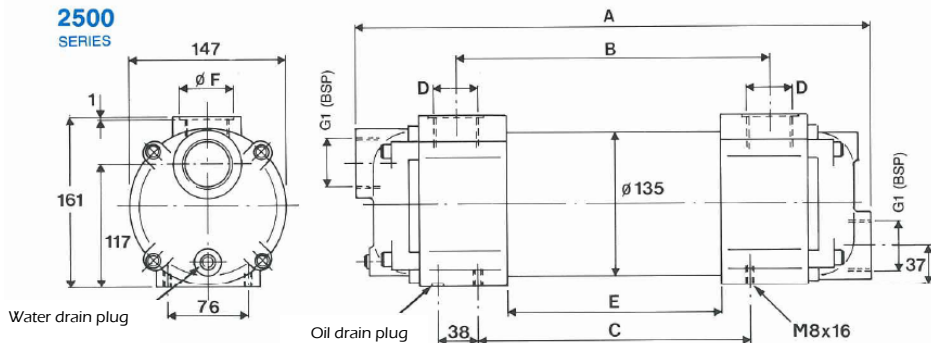


TYPE	A (mm)	B (mm)	C (mm)	D (BSP)	E (mm)	ØF (mm)	Kg	Oil Vol (l)	Water Vol (l)
2312	175	59	*	G½	—	29.1	3	0.3	0.4
2322	259	135	117	G¾	—	36	4	0.5	0.5
2332	345	221	203	G¾	—	36	5	0.7	0.6
2342	443	319	301	G¾	263	36	5	1.0	0.7
2352	571	447	429	G¾	391	36	6	1.3	0.9
2362	717	587	575	G1	537	—	7	1.7	1.1
2372	895	765	753	G1	715	—	8	2.2	1.4

On Model No. 2310 two M6 x 12 mounting holes are provided on base midway between oil port centres  
Add suffix H to part number for 1/4" BSP water connections

Type	Heat Dissipated kW	Oil Flow litre/min	Oil Pressure kPa	Drop bar	Water Flow litre/min	Head loss kPa	bar	Sea water Flow min litre/min	max litre/min
2312	3.6	40	40	0.4	8	1	0.01	20	45
2322	6	50	60	0.6	8	1	0.01		
2332	10	65	50	0.5	13	3	0.03		
2342	15	80	80	0.8	16	5	0.05		
2352	19	90	60	0.6	19	8	0.08		
2362	24	100	90	0.9	21	13	0.13		
2372	31	120	120	1.2	24	15	0.15		

### 2500 SERIES



TYPE	A (mm)	B (mm)	C (mm)	D (BSP)	E (mm)	ØF (mm)	Kg	Oil Vol (l)	Water Vol (l)
2512	291	129	75	G1	—	45	10	1.4	1.4
2522	377	199	161	G1¼	—	53	12	1.9	1.7
2532	475	297	259	G1¼	—	53	13	2.5	2.1
2542	603	425	387	G1¼	333	53	14	3.5	2.6
2552	749	571	533	G1½	479	59	17	4.5	3.2
2562	927	749	711	G1½	657	59	20	5.8	3.9
2572	1129	951	913	G1½	859	59	23	7.3	4.8
2582	1381	1203	1165	G1½	1111	59	27	9.0	5.8
2592	1727	1549	1511	G1½	1457	59	32	11.5	7.2

Add suffix H to part number for 1 1/2" BSP water connections ('A' = +14mm)

Type	Heat Dissipated kW	Oil Flow litre/min	Oil Pressure kPa	Drop bar	Water Flow litre/min	Head loss kPa	bar	Sea water Flow min litre/min	max litre/min
2512	17	120	60	0.6	30	1	0.01	50	120
2522	25	140	70	0.7	40	2	0.02		
2532	32	160	60	0.6	45	4	0.04		
2542	42	180	90	0.9	50	6	0.06		
2552	51	200	80	0.8	60	10	0.10		
2562	68	220	100	1.0	70	17	0.17		
2572	85	250	80	0.8	87	30	0.30		
2582	110	280	110	1.1	120	65	0.65		
2592	135	300	170	1.7	120	75	0.75		

## 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 Marine application.



### Fluid Dynamics Pty Ltd

Heat Exchangers since 1981

25 Star Crescent  
Hallam 3803  
Melbourne  
Victoria Australia

T: +61 3 9796 5988  
F: +61 3 9796 5777  
E: [mail@fluidynamics.com.au](mailto:mail@fluidynamics.com.au)  
W: [www.fluidynamics.com.au](http://www.fluidynamics.com.au)