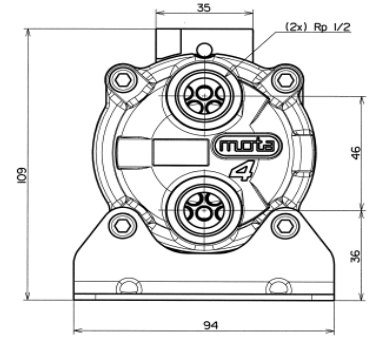
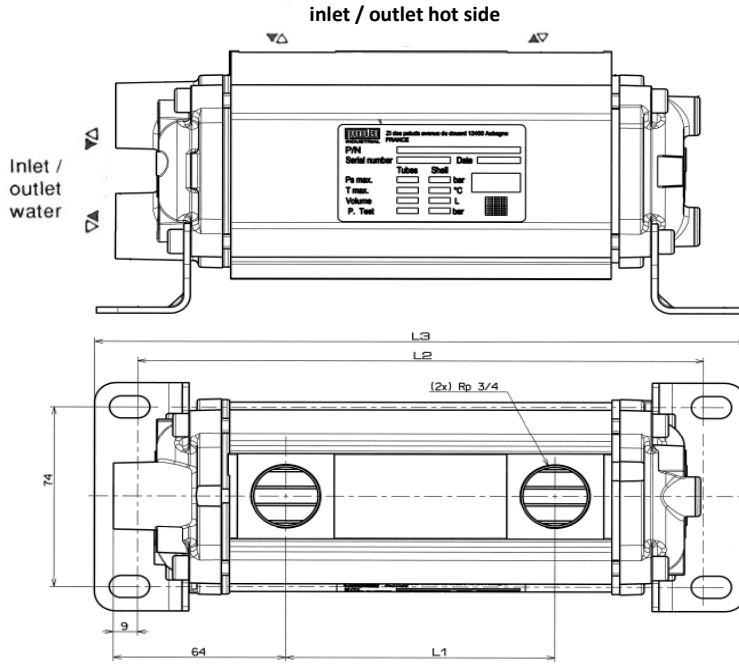
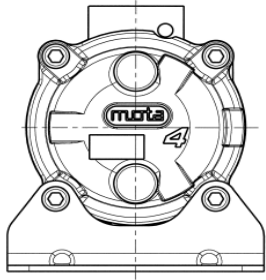


**TECHNICAL
DATA**

**MULTITUBULAR HEAT EXCHANGER
Oil / Water
E065 - xxx - 4**



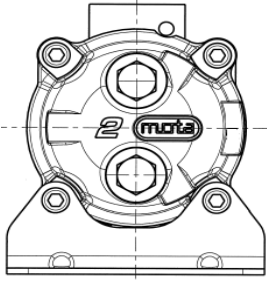
Outside tubes: oil / water
Inside tubes : water

Hot side: Rp 3/4"
Cold side: Rp 1/2"

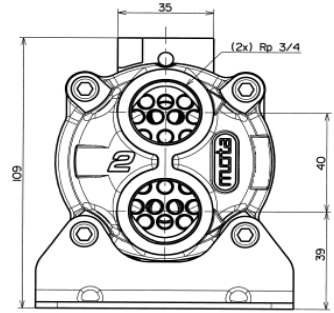
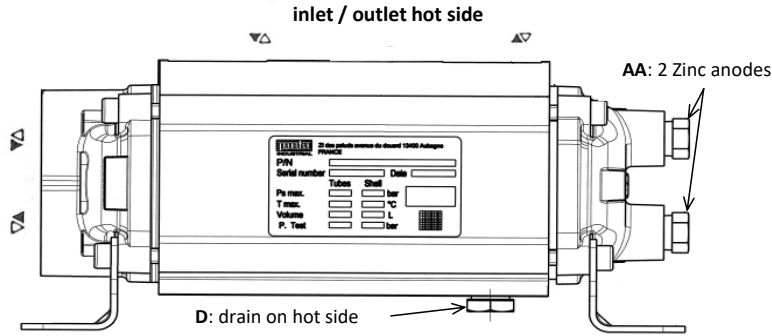
Data	Cooling of oil / water by untreated water or sea water					
Dimensions [mm]	Core length [mm]					
		161	241	411		
	L1	100	180	330		
	L2	210	290	322		
L3	242	322	472			
Area [m²]	A	0,15	0,23	0,39		
Volume [L]	Outside tubes	0,28	0,43	0,75		
	Inside tubes	0,26	0,34	0,51		
Weight [kg] for standard version	Total	2,80	3,40	4,70		
	Working characteristics	Maximum working pressure [bar]		Outside tubes	16	Maximum water flow rate Qw = 30.6 L/min
Inside tubes				10		
Maximum working temperature [°C]		Outside tubes	120			
		Inside tubes	90			
Designation	Tube	Tube plate	Baffle	Shell	Cover	O-ring
Materials	see options	Brass	Brass	Anodized aluminium	Brass	Viton
Model	<div style="display: flex; justify-content: center; align-items: center; gap: 10px;"> <div style="border: 1px solid black; padding: 2px 5px;">E</div> <div style="border: 1px solid black; padding: 2px 5px;">0</div> <div style="border: 1px solid black; padding: 2px 5px;">6</div> <div style="border: 1px solid black; padding: 2px 5px;">5</div> <div style="font-size: 20px;">-</div> <div style="border: 1px solid black; padding: 2px 5px;">2</div> <div style="border: 1px solid black; padding: 2px 5px;">4</div> <div style="border: 1px solid black; padding: 2px 5px;">1</div> <div style="font-size: 20px;">-</div> <div style="border: 1px solid black; padding: 2px 5px;">4</div> <div style="font-size: 20px;">/</div> <div style="border: 1px solid black; padding: 2px 5px;">CN</div> </div> <div style="margin-top: 10px; display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>Type</p> <p>Core diameter</p> <p>Core length</p> <p>Number of passes on cold side</p> </div> <div style="width: 30%; text-align: center;"> <p>Geometry</p> </div> <div style="width: 30%;"> <p>Options</p> <p>Tubes material</p> <ul style="list-style-type: none"> - Copper CN Copper-Nickel </div> </div>					

**TECHNICAL
DATA**

**MULTITUBULAR HEAT EXCHANGER
Oil / Water
E065 - xxx - 2**

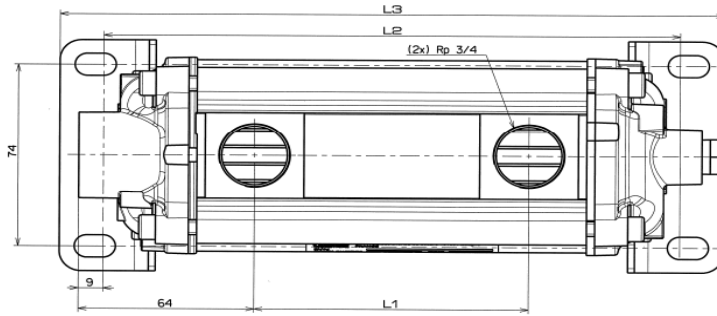


Inlet /
outlet
water



Outside tubes: oil / water
Inside tubes : water

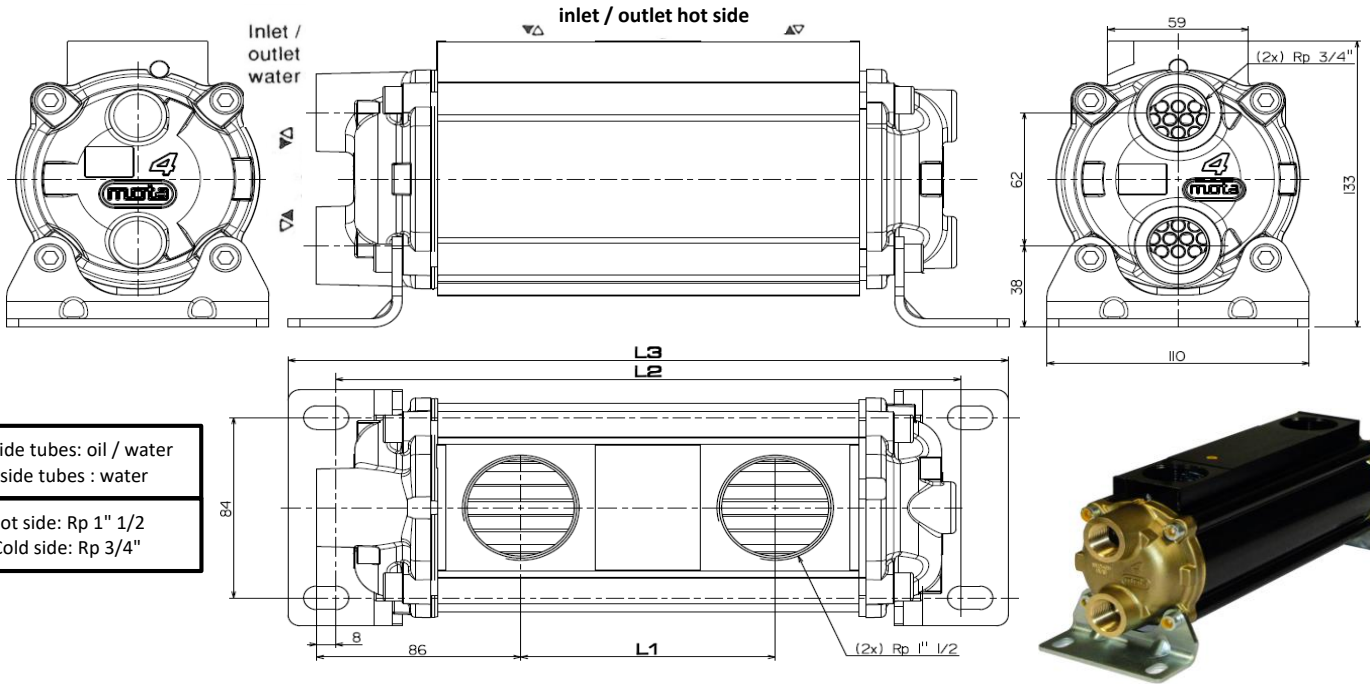
Hot side: Rp 3/4"
Cold side: Rp 3/4"



Data	Cooling of oil / water by untreated water or sea water					
Dimensions [mm]	Core length [mm]					
		161	241	411		
	L1	100	180	330		
	L2	210	290	322		
	L3	242	322	472		
Area [m²]	A	0,15	0,23	0,39		
Volume [L]	Outside tubes	0,28	0,43	0,75		
	Inside tubes	0,26	0,34	0,51		
Weight [kg] for standard version	Total	2,80	3,40	4,70		
	Working characteristics	Maximum working pressure [bar]		Outside tubes	16	Maximum water flow rate Qw = 60 L/min
Inside tubes				10		
Maximum working temperature [°C]		Outside tubes	120			
		Inside tubes	90			
Designation	Tube	Tube plate	Baffle	Shell	Cover	O-ring
Materials	see options	Brass	Brass	Anodized aluminium	see options	Viton
Model	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">E</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">0</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">6</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">5</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">-</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">2</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">4</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">1</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">-</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">2</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">/</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">CN</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">-</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">BR</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">-</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">D</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">-</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">AA</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;"> <p>Type</p> <p>Core diameter</p> <p>Core length</p> <p>Number of passes on cold side</p> </div> <div style="width: 30%;"> <p>Geometry</p> <p>Tubes material - Copper CN Copper-Nickel</p> <p>Covers material BR Bronze</p> </div> <div style="width: 30%;"> <p>Options</p> <p>Drain on hot side D With drain</p> <p>Anodes on cold side AA With 2 anodes</p> </div> </div> </div>					

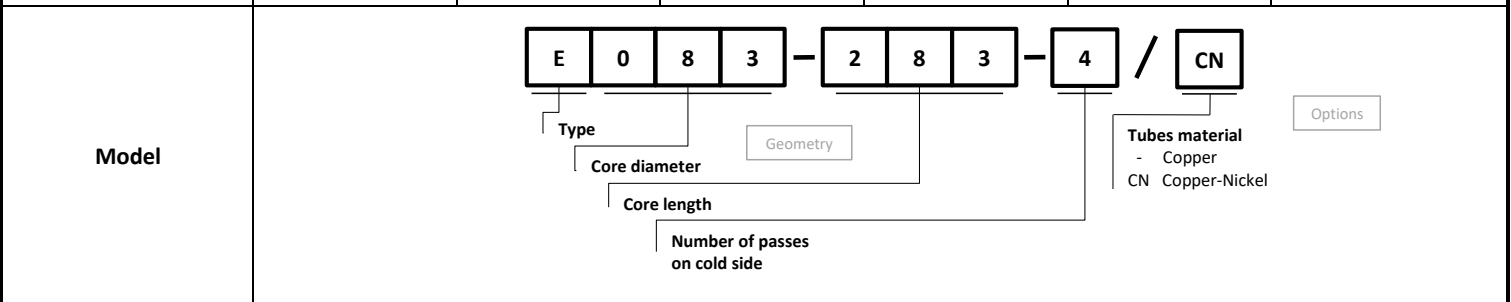
**TECHNICAL
DATA**

**MULTITUBULAR HEAT EXCHANGER
Oil / Water
E083 - xxx - 4**



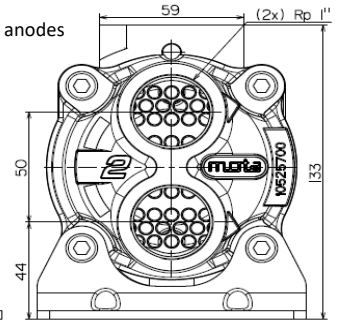
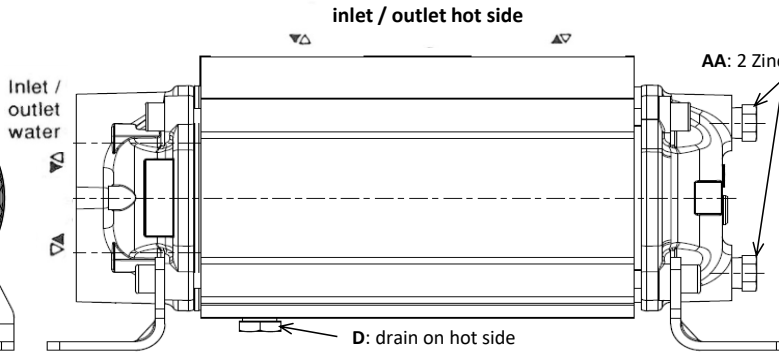
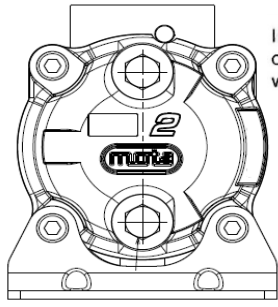
Outside tubes: oil / water
Inside tubes : water
Hot side: Rp 1" 1/2
Cold side: Rp 3/4"

Data	Cooling of oil / water by untreated water or sea water					
Dimensions [mm]	Core length [mm]					
		196	283	411		
	L1	107	194	322		
	L2	263	350	478		
	L3	303	390	518		
Area [m²]	A	0,31	0,46	0,68		
Volume [L]	Outside tubes	0,54	0,80	1,18		
	Inside tubes					
Weight [kg] for standard version	Total	6,10	7,60	9,90		
Working characteristics	Maximum working pressure [bar]		Outside tubes	16	Maximum water flow rate Qw = 75 L/min	
			Inside tubes	10		
	Maximum working temperature [°C]		Outside tubes	120		
			Inside tubes	90		
Designation	Tube	Tube plate	Baffle	Shell	Cover	O-ring
Materials	see options	Brass	Brass	Anodized aluminium	Brass	Viton



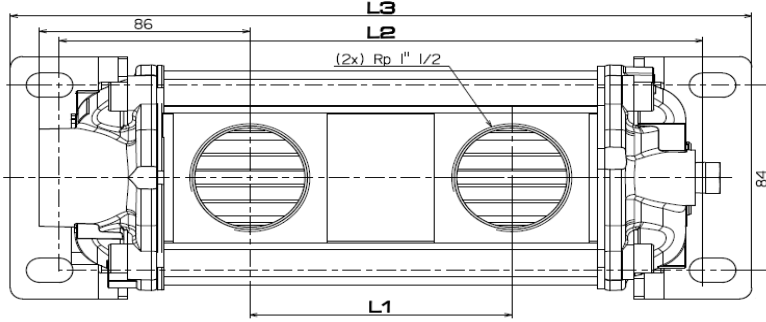
**TECHNICAL
DATA**

**MULTITUBULAR HEAT EXCHANGER
Oil / Water
E083 - xxx - 2**



Outside tubes: oil / water
Inside tubes : water

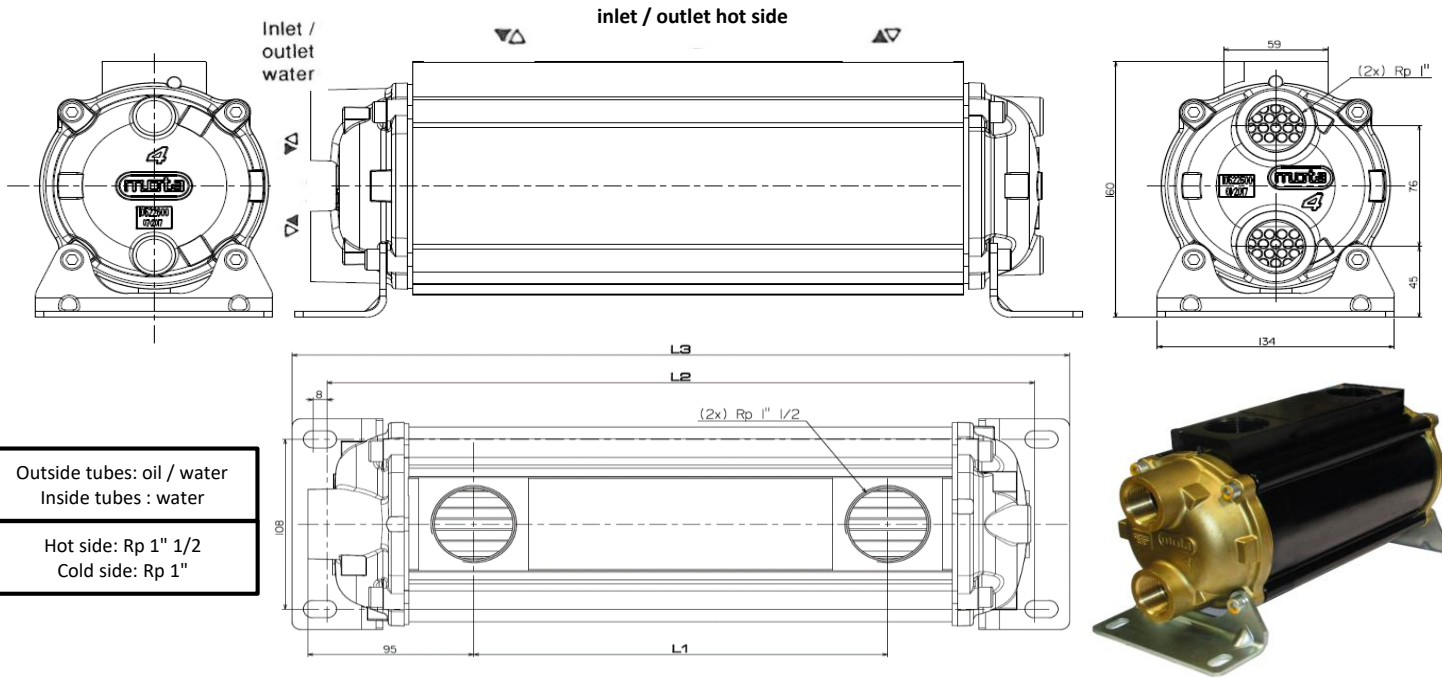
Hot side: Rp 1" 1/2
Cold side: Rp 1"



Data	Cooling of oil / water by untreated water or sea water																																										
Dimensions [mm]	Core length [mm]																																										
		196	283	411																																							
	L1	107	194	322																																							
	L2	263	350	478																																							
	L3	303	390	518																																							
Area [m²]	A	0,31	0,46	0,68																																							
Volume [L]	Outside tubes	0,54	0,80	1,18																																							
	Inside tubes																																										
Weight [kg] for standard version	Total	6,10	7,60	9,90																																							
Working characteristics	Maximum working pressure [bar]		Outside tubes	16	Maximum water flow rate Qw = 150 L/min																																						
			Inside tubes	10																																							
	Maximum working temperature [°C]		Outside tubes	120																																							
			Inside tubes	90																																							
Designation	Tube	Tube plate	Baffle	Shell	Cover	O-ring																																					
Materials	see options	Brass	Brass	Anodized aluminium	see options	Viton																																					
Model	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 5px; text-align: center;">E</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">0</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">8</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">3</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">-</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">2</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">8</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">3</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">-</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">2</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">/</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">CN</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">-</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">BR</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">-</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">D</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">-</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">AA</td> </tr> <tr> <td colspan="4" style="text-align: center;">Type</td> <td colspan="2" style="text-align: center;">Core diameter</td> <td colspan="2" style="text-align: center;">Core length</td> <td colspan="2" style="text-align: center;">Number of passes on cold side</td> <td colspan="3" style="text-align: center;">Tubes material - Copper CN Copper-Nickel</td> <td colspan="2" style="text-align: center;">Covers material BR Bronze</td> <td colspan="2" style="text-align: center;">Drain on hot side D With drain</td> <td colspan="2" style="text-align: center;">Anodes on cold side AA With 2 anodes</td> </tr> </table>						E	0	8	3	-	2	8	3	-	2	/	CN	-	BR	-	D	-	AA	Type				Core diameter		Core length		Number of passes on cold side		Tubes material - Copper CN Copper-Nickel			Covers material BR Bronze		Drain on hot side D With drain		Anodes on cold side AA With 2 anodes	
E	0	8	3	-	2	8	3	-	2	/	CN	-	BR	-	D	-	AA																										
Type				Core diameter		Core length		Number of passes on cold side		Tubes material - Copper CN Copper-Nickel			Covers material BR Bronze		Drain on hot side D With drain		Anodes on cold side AA With 2 anodes																										

**TECHNICAL
DATA**

**MULTITUBULAR HEAT EXCHANGER
Oil / Water
E110 - xxx - 4**



Outside tubes: oil / water
Inside tubes : water

Hot side: Rp 1" 1/2
Cold side: Rp 1"

Data	Cooling of oil / water by untreated water or sea water					
Dimensions [mm]	Core length [mm]					
		241	330	564		
	L1	148	237	471		
	L2	316	405	639		
Area [m²]	A	0,70	0,98	1,70		
Volume [L]	Outside tubes	1,14	1,59	2,77		
	Inside tubes					
Weight [kg] for standard version	Total	10,00	12,20	18,20		
	Working characteristics	Maximum working pressure [bar]		Outside tubes	16	Maximum water flow rate Qw = 140 L/min
Inside tubes				10		
Maximum working temperature [°C]		Outside tubes	120			
		Inside tubes	90			
Designation	Tube	Tube plate	Baffle	Shell	Cover	O-ring
Materials	see options	Brass	Brass	Anodized aluminium	Brass	Viton

Model

E

1

1

0

-

2

4

1

-

4

/

CN

Type: E

Core diameter: 1

Core length: 1

Number of passes on cold side: 0

Geometry: 2-4-1

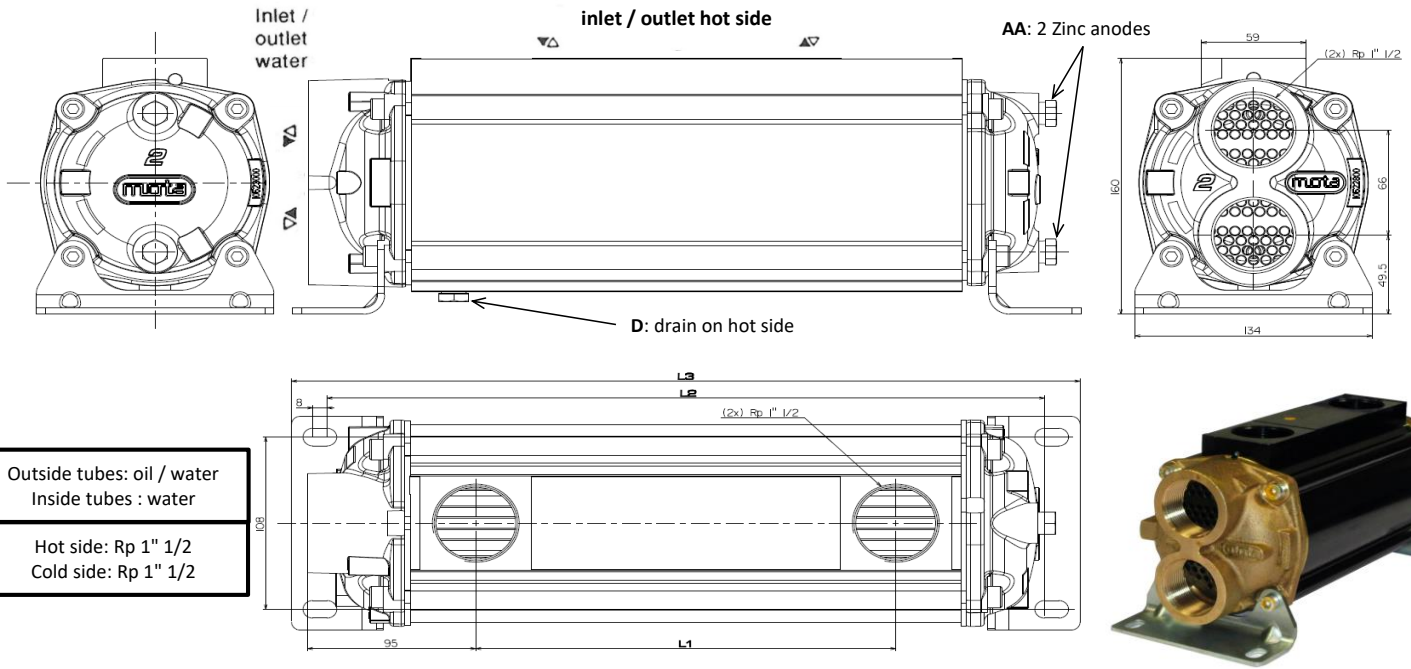
Number of passes on hot side: 4

Options: CN

Tubes material
 - Copper
 CN Copper-Nickel

**TECHNICAL
DATA**

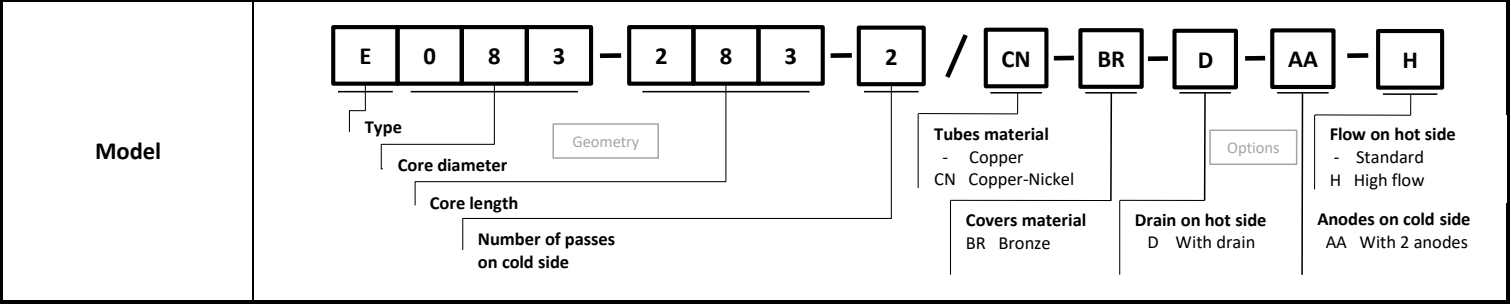
**MULTITUBULAR HEAT EXCHANGER
Oil / Water
E110 - xxx - 2**



Outside tubes: oil / water
Inside tubes : water

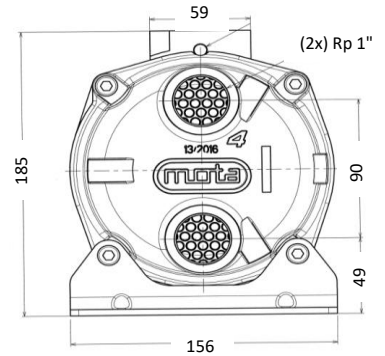
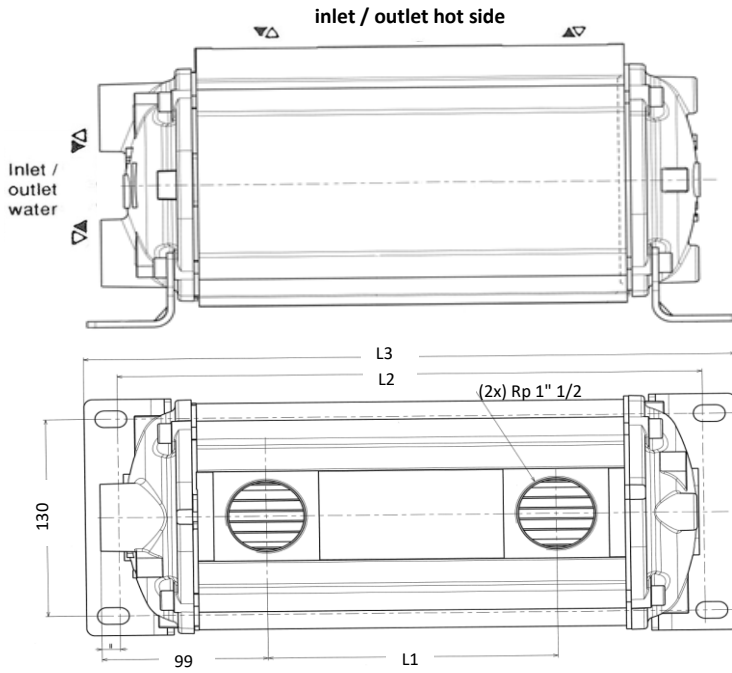
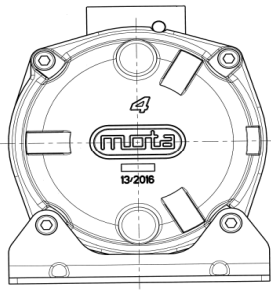
Hot side: Rp 1" 1/2
Cold side: Rp 1" 1/2

Data	Cooling of oil / water by untreated water or sea water					
Dimensions [mm]	Core length [mm]					
		241	330	564		
	L1	148	237	471		
	L2	316	405	639		
	L3	356	445	679		
Area [m²]	A	0,70	0,98	1,70		
Volume [L]	Outside tubes	1,14	1,59	2,77		
	Inside tubes					
Weight [kg] for standard version	Total	10,00	12,20	18,20		
Working characteristics	Maximum working pressure [bar]		Outside tubes	16	Maximum water flow rate Qw = 280 L/min	
			Inside tubes	10		
	Maximum working temperature [°C]		Outside tubes	120		
			Inside tubes	90		
Designation	Tube	Tube plate	Baffle	Shell	Cover	O-ring
Materials	see options	Brass	Brass	Anodized aluminium	see options	Viton



**TECHNICAL
DATA**

**MULTITUBULAR HEAT EXCHANGER
Oil / Water
E135 - xxx - 4**



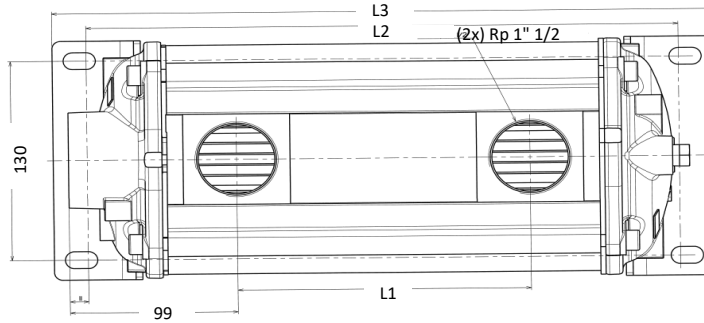
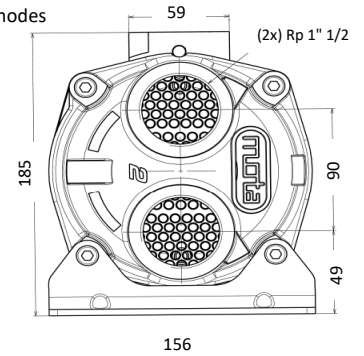
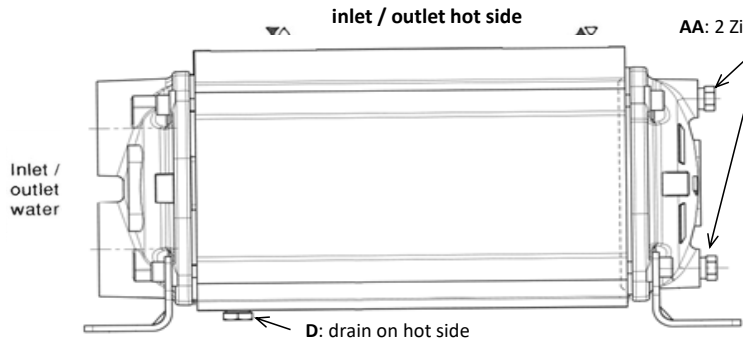
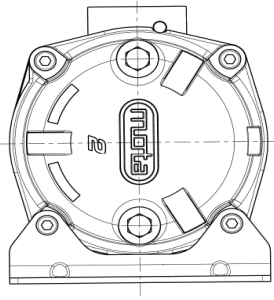
Outside tubes: oil / water
Inside tubes : water

Hot side: Rp 1" 1/2
Cold side: Rp 1"

Data	Cooling of oil / water by untreated water or sea water					
Dimensions [mm]	Core length [mm]					
		283	411	564		
	L1	182	310	463		
	L2	358	496	639		
	L3	398	526	679		
Area [m²]	A	1,34	1,98	2,74		
Volume [L]	Outside tubes	1,99	2,83	3,92		
	Inside tubes					
Weight [kg] for standard version	Total	14,20	19,30	24,20		
Working characteristics	Maximum working pressure [bar]		Outside tubes	16	Maximum water flow rate Qw = 230 L/min	
			Inside tubes	10		
	Maximum working temperature [°C]		Outside tubes	120		
			Inside tubes	90		
Designation	Tube	Tube plate	Baffle	Shell	Cover	O-ring
Materials	see options	Brass	Brass	Anodized aluminium	Brass	Viton
Model	<div style="display: flex; justify-content: center; align-items: center; gap: 10px;"> <div style="border: 1px solid black; padding: 2px 5px;">E</div> <div style="border: 1px solid black; padding: 2px 5px;">1</div> <div style="border: 1px solid black; padding: 2px 5px;">3</div> <div style="border: 1px solid black; padding: 2px 5px;">5</div> <div style="font-size: 20px;">-</div> <div style="border: 1px solid black; padding: 2px 5px;">2</div> <div style="border: 1px solid black; padding: 2px 5px;">8</div> <div style="border: 1px solid black; padding: 2px 5px;">3</div> <div style="font-size: 20px;">-</div> <div style="border: 1px solid black; padding: 2px 5px;">4</div> <div style="font-size: 20px;">/</div> <div style="border: 1px solid black; padding: 2px 5px;">CN</div> </div> <div style="display: flex; justify-content: center; margin-top: 10px; gap: 20px;"> <div style="text-align: left;"> <p>Type</p> <p>Core diameter</p> <p>Core length</p> <p>Number of passes on cold side</p> </div> <div style="text-align: center;"> <p>Geometry</p> </div> <div style="text-align: left;"> <p>Tubes material</p> <ul style="list-style-type: none"> - Copper CN Copper-Nickel </div> <div style="border: 1px solid black; padding: 2px 5px; font-size: 8px;">Options</div> </div>					

**TECHNICAL
DATA**

**MULTITUBULAR HEAT EXCHANGER
Oil / Water
E135 - xxx - 2**



Outside tubes: oil / water
Inside tubes : water

Hot side: Rp 1" 1/2
Cold side: Rp 1" 1/2

Data	Cooling of oil / water by untreated water or sea water																									
Dimensions [mm]	Core length [mm]																									
		283	411	564																						
	L1	182	310	463																						
	L2	358	496	639																						
	L3	398	526	679																						
Area [m²]	A	1,34	1,98	2,74																						
Volume [L]	Outside tubes	1,99	2,83	3,92																						
	Inside tubes																									
Weight [kg] for standard version	Total	14,20	19,30	24,20																						
Working characteristics	Maximum working pressure [bar]		Outside tubes	16	Maximum water flow rate Qw = 460 L/min																					
			Inside tubes	10																						
	Maximum working temperature [°C]		Outside tubes	120																						
			Inside tubes	90																						
Designation	Tube	Tube plate	Baffle	Shell	Cover	O-ring																				
Materials	see options	Brass	Brass	anodized Aluminium	BR: Bronze	Viton																				
Model	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 5px; text-align: center;">E</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">1</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">3</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">5</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">-</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">2</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">8</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">3</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">-</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">2</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">/</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">CN</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">-</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">BR</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">-</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">D</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">-</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">AA</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">-</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">H</td> </tr> </table> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;"> <p>Type</p> <p>Core diameter</p> <p>Core length</p> <p>Number of passes on cold side</p> </div> <div style="width: 30%;"> <p>Geometry</p> <p>Tubes material - Copper CN Copper-Nickel</p> <p>Covers material BR Bronze</p> </div> <div style="width: 30%;"> <p>Options</p> <p>Drain on hot side D With drain</p> <p>Flow on hot side - Standard H High flow</p> <p>Anodes on cold side AA With 2 anodes</p> </div> </div>						E	1	3	5	-	2	8	3	-	2	/	CN	-	BR	-	D	-	AA	-	H
E	1	3	5	-	2	8	3	-	2	/	CN	-	BR	-	D	-	AA	-	H							