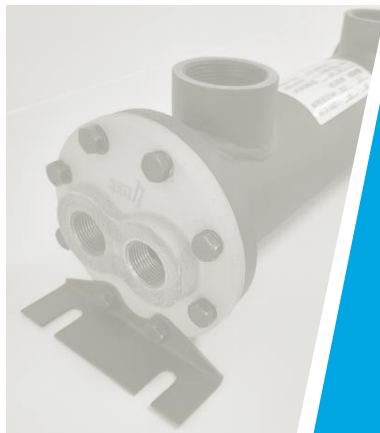
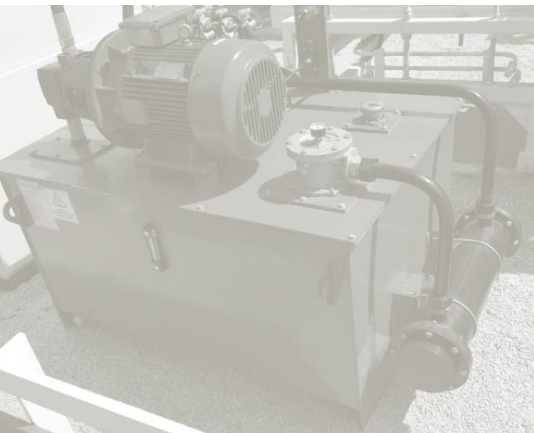




Thermal Systems / Oil/Water Coolers

ST Series

Shell tube heat exchanger



**be different.
make a difference.**

Oil/Water Coolers, ST Series

Shell tubes heat exchanger

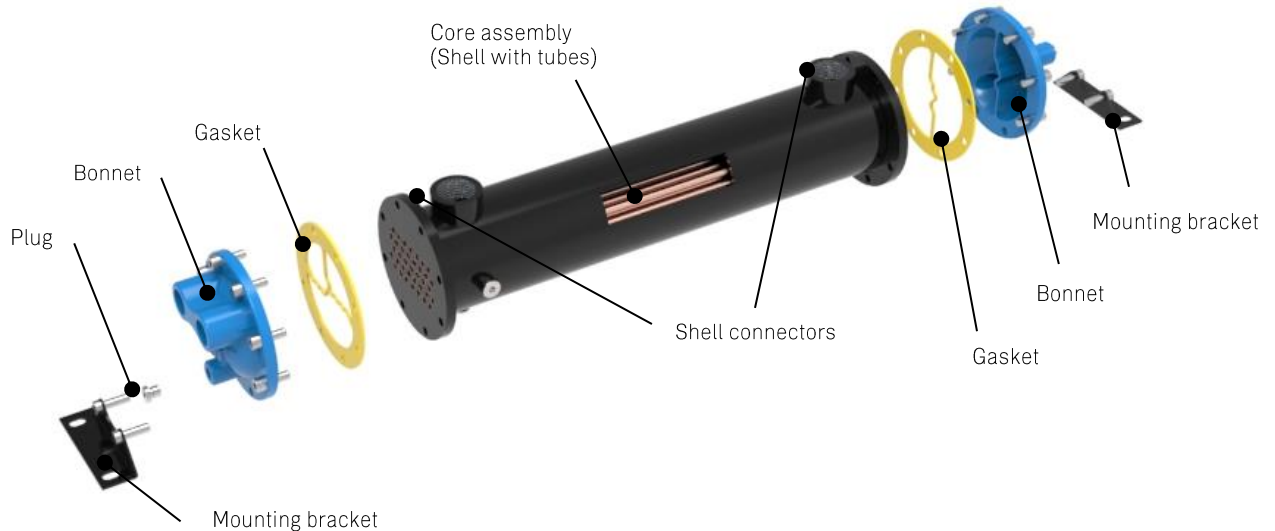


Function

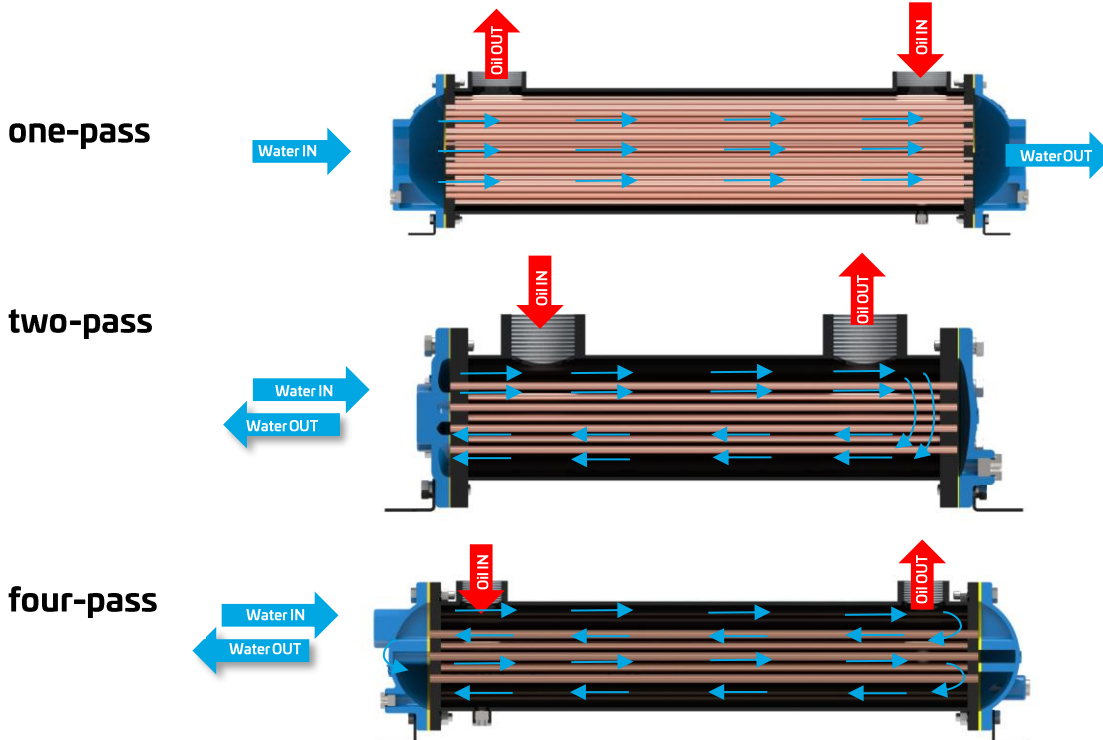
Our ST series is a modular range of shell and tube design heat exchangers. The main benefits of this design are the versatility of applications more independent of the used fluid quality and good maintenance ability compared to other heat exchanger types. Our modular setup allows the best suitable connection and flow principle for lowest pressure drop at highest cooling performance. We supply single or more pass configurations as well as different material combinations. For raising efficiency we offer all these configurations with hybrid finned tube technology.

Design

A bundle of tubes are brazed at both the end flanges to create two fluid circuits, for heat exchanging purpose. The end flanges are sealed with a gasket and the connection to the hydraulic system is implemented in the bonnet. One side flows through the tubes (the tube side) and the other inside the outer tube (shell side), separated from each other. The heat transfers from one fluid to another through the tube walls, either from tube side to shell or the other way round.



Apart from different sizes we offer one-pass, two pass and four pass configuration:



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Oil/Water Coolers, ST Series

Shell tubes heat exchanger



Material and Limits

Depending on the projected application we offer different material configurations to all of our ST series modules.

Materials	A	B	C	D
shell	carbon steel	carbon steel	stainless steel	carbon
tube sheet	carbon steel	carbon steel	stainless steel	carbon
tube	copper	copper/nickel 90/10	stainless steel	admiralty (brass)
bonnet	cast iron	cast iron	stainless steel	cast iron
extended fins	aluminium	aluminium	aluminium	no fins

Pressure

shell side	max. 290 PSI
tube side	max. 145 PSI

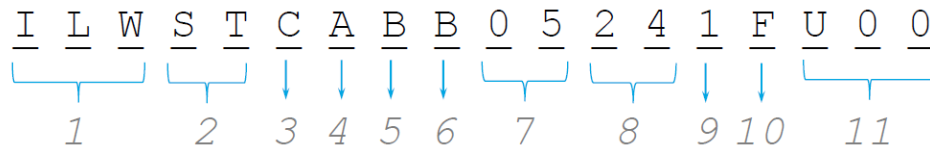
Temperatures/Sealings

compress fiber (F)	302 °F
PTFE (P)	212 °F
NBR (N)	176 °F
Viton (V)	248 °F

Fluid Compatibility for material configuration A

mineral oils with water or water/glycol as a coolant
--

Order Code



1 Product Series

I	Industrial Application
L	Heat exchanger
W	Oil/Water cooling

2 Product Series

ST	shell tube cooler series
----	--------------------------

3 Tube diameter

hybrid with fin	
C	0.20 in tube Ø – with fin / only shell 03 & 05
D	0.37 in tube Ø – with fin / only shell 05, 06 & 08

4 Material configuration

A	Hydraulic / standard configuration
B	Marine / standard configuration
C	Chemicals / stainless steel tube configuration
D	Industrial / admiralty tube configuration
...	any other configuration and material on request

5 Shell connection / compatible bonnet connection

B	BSP thread / only with BSP bonnet
N	NPT cone thread / only with NPT bonnet
U	SAE o-ring (UNF) / only with NPT bonnet
S	4-bolt SAE flange / only with NPT bonnet
F	Pipe flange (on request) / only with pipe flange bonnet

6 Bonnet connection

B	BSP thread
N	NPT cone thread
F	Pipe flange (on request)

7 Shell inner diameter / compatible tube lengths)

02	2.36 in / only with 8 & 10
03	3.15 in / only with 14 & 24
05	4.92 in / only with 24 & 36
06	5.91 in / only with 24, 36 & 48
08	7.87 in / only with 36, 48, & 60

8 Tube length

08	8 in
10	10 in
12	12 in
14	14 in
18	18 in
24	24 in
36	36 in
48	48 in
60	60 in

9 Flow passes

1	One pass
2	Two pass
4	Four pass

10 Gasket material

F	Compress fiber (standard)
P	PTFE (on request)
N	NBR (on request)
V	Viton / FPM (on request)

11 Index /customized

U00	Standard US sales kit
UXX	To be advised by asa

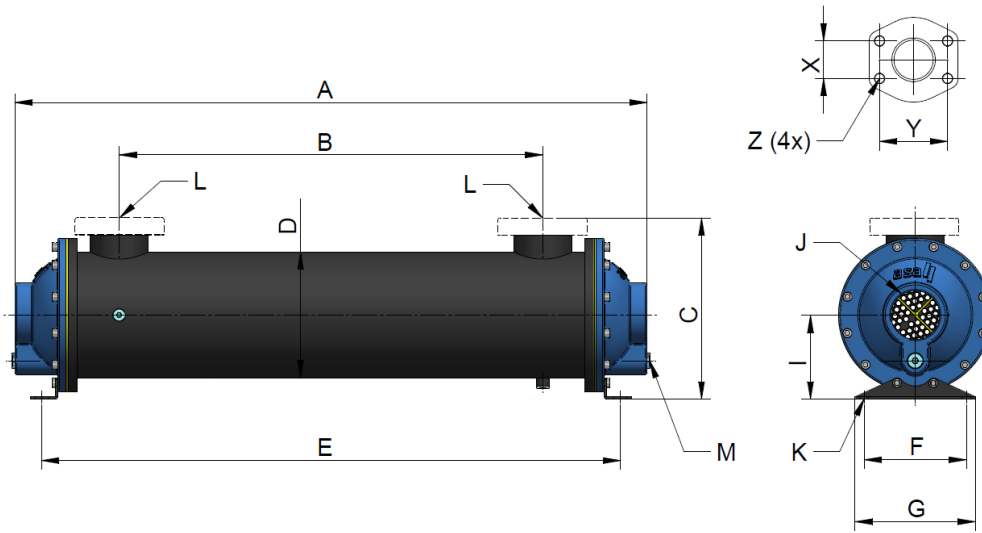
Oil/Water Coolers, ST Series

Shell tubes heat exchanger

ONE PASS



Dimension



SAE Flange	X	Y	Z
1 1/2"	1.42	2.76	M12
2"	1.69	3.07	M12
3"	2.44	4.17	M16

Technical Data

order number	A	B	C		D	E	F	G	I	J	K	L		M	weight
	[in]	[in]	BSPP [in]	SAE [in]	Ø [in]	[in]	[in]	[in]	[in]	BSPP/ NPT	slot [in]	BSPP/ NPT	SAE	BSPP	[lbs]
ILWSTCA....02081FU00	10.39	3.86	3.90	n/a	2.56	10.43	2.52	3.50	1.61	3/4"	0.31x0.63	3/4"	n/a	n/a	6.6
ILWSTCA....02101FU00	12.40	5.59	3.90	n/a	2.56	12.44	2.52	3.50	1.61	3/4"	0.31x0.63	3/4"	n/a	n/a	6.6
ILWSTCA....03141FU00	17.13	8.98	5.47	5.71	3.50	16.69	2.99	5.00	2.60	1 1/4"	0.43x0.75	1 1/2"	1 1/2"	1/4"	19.8
ILWSTCA....03241FU00	27.13	18.98	5.47	5.71	3.50	26.73	2.99	5.00	2.60	1 1/4"	0.43x0.75	1 1/2"	1 1/2"	1/4"	26.5
ILWSTCA....05181FU00	21.34	12.20	7.68	8.31	5.00	21.46	4.02	6.50	4.02	1 1/2"	0.43x0.98	1 1/2"	2"	1/4"	41.9
ILWSTCA....05241FU00	27.32	18.19	7.68	8.31	5.00	27.44	4.02	6.50	4.02	1 1/2"	0.43x0.98	1 1/2"	2"	1/4"	50.7
ILWSTCA....05361FU00	39.33	30.20	7.68	8.31	5.00	39.45	4.02	6.50	4.02	1 1/2"	0.43x0.98	1 1/2"	2"	1/4"	66.1
ILWSTDA....05241FU00	30.00	20.12	7.48	7.99	5.24	27.44	4.02	5.24	4.02	2"	0.51x0.75	1 1/2"	2"	3/8"	44.1
ILWSTDA....05361FU00	42.01	32.13	7.48	7.99	5.24	39.45	4.02	5.24	4.02	2"	0.51x0.75	1 1/2"	2"	3/8"	66.1
ILWSTDA....06241FU00	30.12	19.02	8.74	9.37	6.26	28.11	5.00	6.26	4.49	3"	0.51x0.75	2"	2"	3/8"	99.2
ILWSTDA....06361FU00	42.13	30.98	8.74	9.37	6.26	40.12	5.00	6.26	4.49	3"	0.51x0.75	2"	2"	3/8"	125.7
ILWSTDA....06481FU00	54.13	42.99	8.74	9.37	6.26	52.13	5.00	6.26	4.49	3"	0.51x0.75	2"	2"	3/8"	149.9
ILWSTDA....08361FU00	45.24	30.75	11.61	12.52	8.62	41.89	7.01	8.27	5.75	4"	0.63x0.87	3"	3"	3/8"	200.6
ILWSTDA....08481FU00	57.24	42.76	11.61	12.52	8.62	53.90	7.01	8.27	5.75	4"	0.63x0.87	3"	3"	3/8"	251.3
ILWSTDA....08601FU00	69.25	54.76	11.61	12.52	8.62	65.91	7.01	8.27	5.75	4"	0.63x0.87	3"	3"	3/8"	302.0



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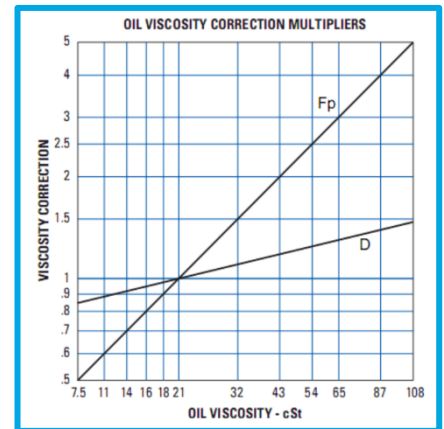
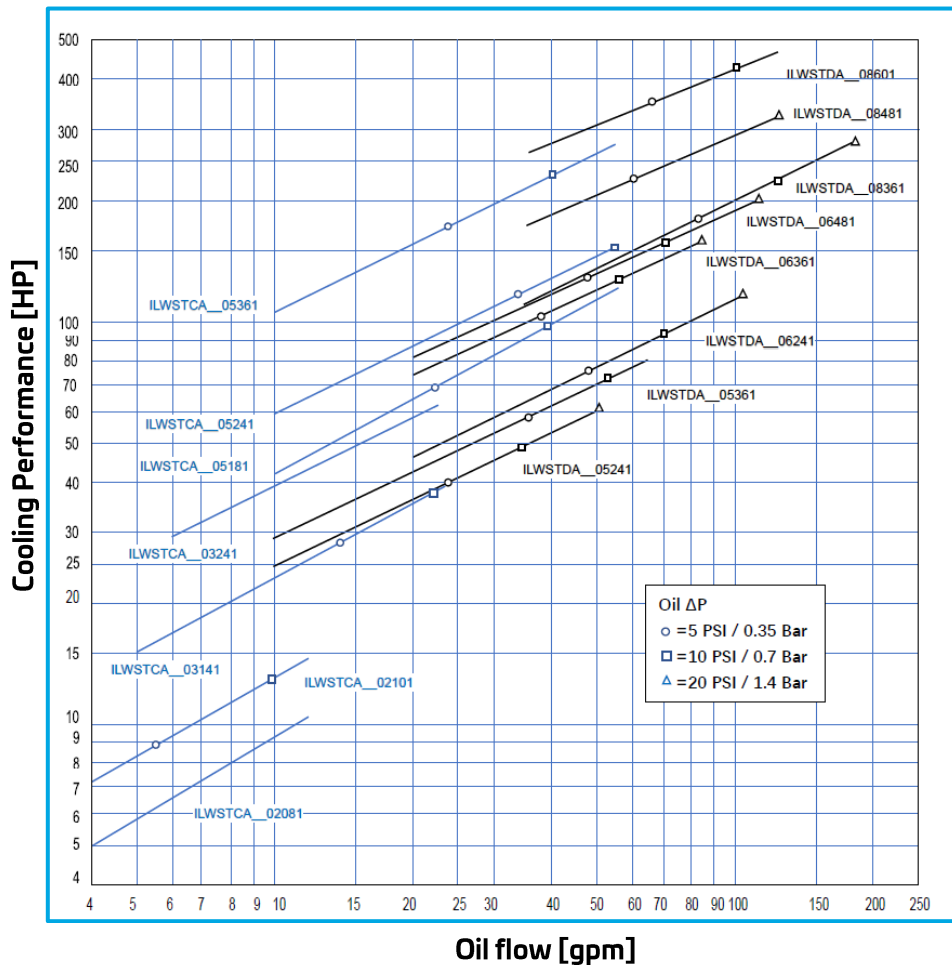
Oil/Water Coolers, ST Series

Shell tubes heat exchanger



Performance

1:1 Oil to Water Ratio-High Water Usage



Maximum Water Flow Rates 1 Pass	
size	[gpm]
2"	1.93
3"	3.58
5" (5mm)	8.35
5" (9,5 mm)	9.69
6"	17.87
8"	32.80

Oil Pressure Drop

- Most systems can tolerate a pressure drop through the heat exchanger of 1 to 2 Bar.
- Excessive pressure drop should be avoided.

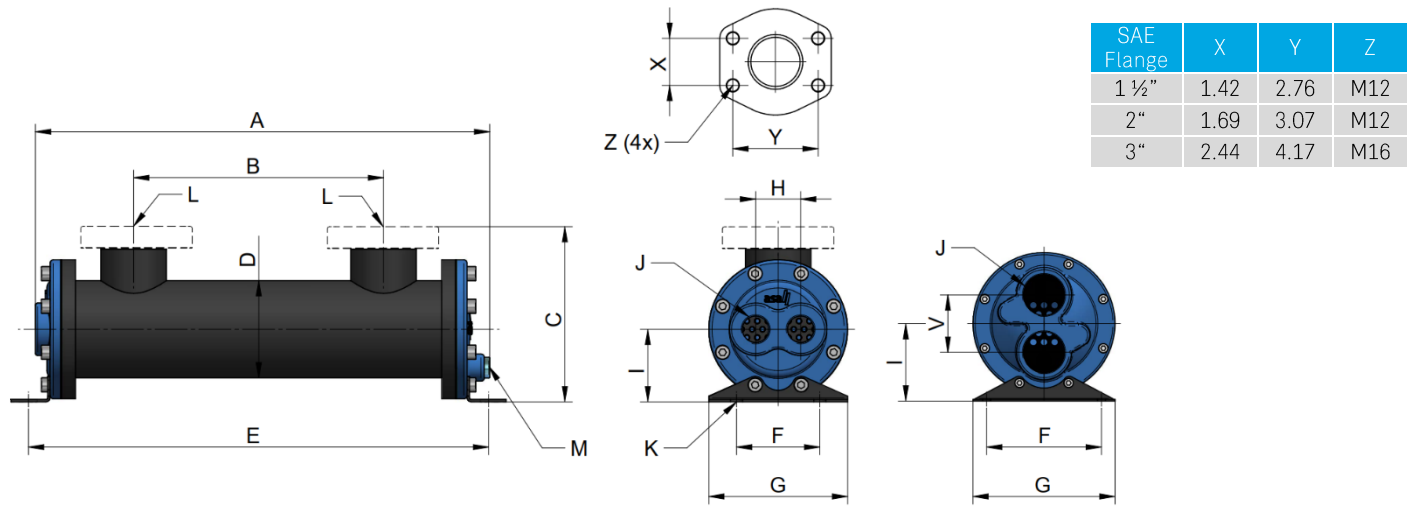
Oil/Water Coolers, ST Series

Shell tubes heat exchanger

TWO PASS



Dimension



Technical Data

order number	A	B	C	D		E	F	G	H	I	J	K	L		M	V	weight
	[in]	[in]	BSPP [in]	SAE [in]	Ø [in]	[in]	[in]	[in]	[in]	[in]	BSPP/ NPT	slot [in]	BSPP/ NPT	SAE	BSPP	[in]	[lbs]
ILWSTCA....02082FU00	10.39	3.86	3.90	n/a	2.56	10.43	2.52	3.50	1.14	1.61	⅜"	0.35x0.63	¾"	n/a	n/a	-	6.6
ILWSTCA....02102FU00	12.40	5.59	3.90	n/a	2.56	12.44	2.52	3.50	1.14	1.61	⅜"	0.35x0.63	¾"	n/a	n/a	-	6.6
ILWSTCA....03142FU00	16.18	8.98	5.47	5.71	3.50	16.38	2.99	5.00	1.61	2.60	¾"	0.43x0.75	1 ½"	1 ½"	¼"	-	19.8
ILWSTCA....03242FU00	26.18	18.98	5.47	5.71	3.50	26.73	2.99	5.00	1.61	2.60	¾"	0.43x0.75	1 ½"	1 ½"	¼"	-	26.5
ILWSTCA....05182FU00	20.55	12.20	7.68	8.31	5.00	21.46	4.02	6.50	2.40	4.02	1"	0.43x0.98	1 ½"	2"	¼"	-	41.9
ILWSTCA....05242FU00	26.54	18.19	7.68	8.31	5.00	27.44	4.02	6.50	2.40	4.02	1"	0.43x0.98	1 ½"	2"	¼"	-	50.7
ILWSTCA....05362FU00	38.54	30.20	7.68	8.31	5.00	39.45	4.02	6.50	2.40	4.02	1"	0.43x0.98	1 ½"	2"	¼"	-	66.1
ILWSTDA....05242FU00	30.00	20.12	7.48	7.99	5.24	27.44	4.02	5.24	1.50	4.02	1 ½"	0.51x0.75	1 ½"	2"	¼"	1.50	44.1
ILWSTDA....05362FU00	42.01	32.13	7.48	7.99	5.24	39.45	4.02	5.24	1.50	4.02	1 ½"	0.51x0.75	1 ½"	2"	¼"	1.50	66.1
ILWSTDA....06242FU00	30.12	19.02	8.74	9.37	6.26	28.11	6.26	7.76	1.57	4.49	2"	0.51x0.75	2"	2"	⅜"	1.57	99.2
ILWSTDA....06362FU00	42.13	30.98	8.74	9.37	6.26	40.12	6.26	7.76	1.57	4.49	2"	0.51x0.75	2"	2"	⅜"	1.57	125.7
ILWSTDA....06482FU00	54.13	42.99	8.74	9.37	6.26	52.13	6.26	7.76	1.57	4.49	2"	0.51x0.75	2"	2"	⅜"	1.57	149.9
ILWSTDA....08362FU00	45.24	30.75	11.50	12.52	8.62	41.89	8.27	10.51	2.24	5.75	2 ½"	0.63x0.87	3"	3"	⅜"	2.24	200.6
ILWSTDA....08482FU00	57.24	42.76	11.50	12.52	8.62	53.90	8.27	10.51	2.24	5.75	2 ½"	0.63x0.87	3"	3"	⅜"	2.24	251.3
ILWSTDA....08602FU00	69.25	54.76	11.50	12.52	8.62	65.91	8.27	10.51	2.24	5.75	2 ½"	0.63x0.87	3"	3"	⅜"	2.24	302.0



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DD-ILWST-Series-us-rev1
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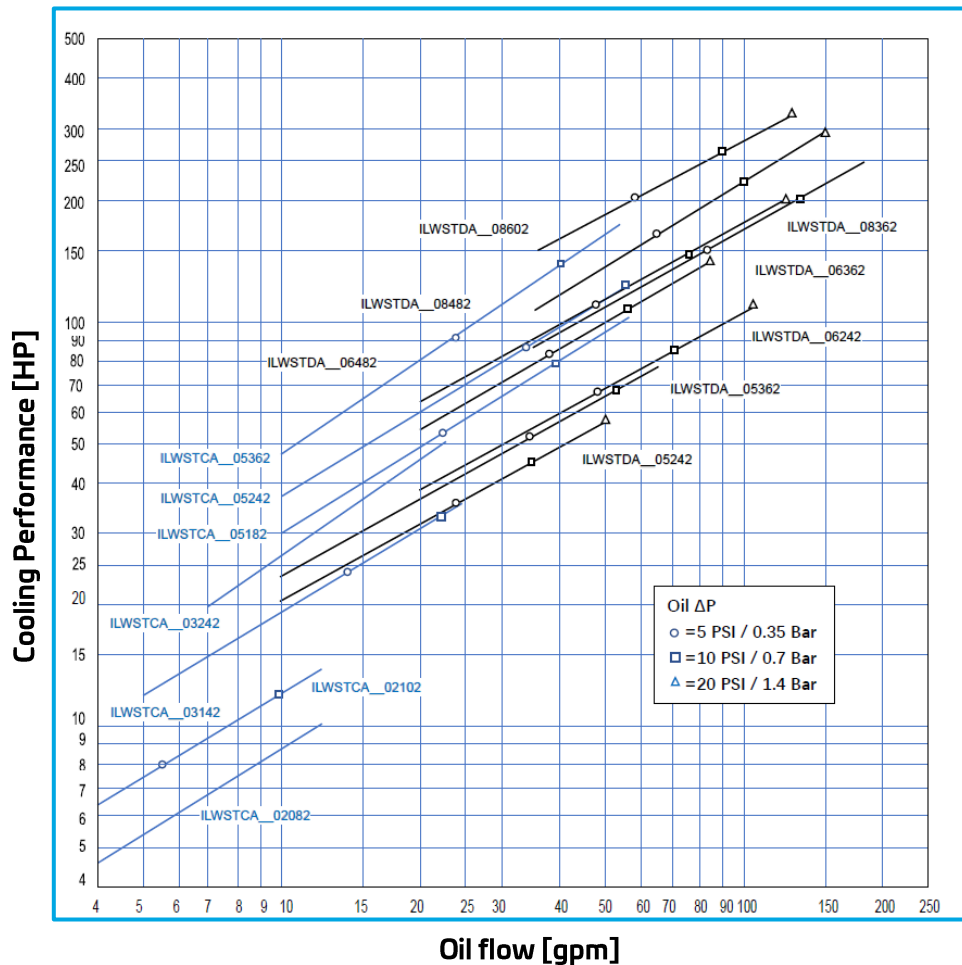
Oil/Water Coolers, ST Series

Shell tubes heat exchanger



Performance

2:1 Oil to Water Ratio-Medium Water Usage



Maximum Water Flow Rates 2 Pass	
size	[gpm]
2"	6.1
3"	11.9
5"	28.0
(5mm)	
5"	32.0
(9,5 mm)	
6"	60.0
8"	109.9

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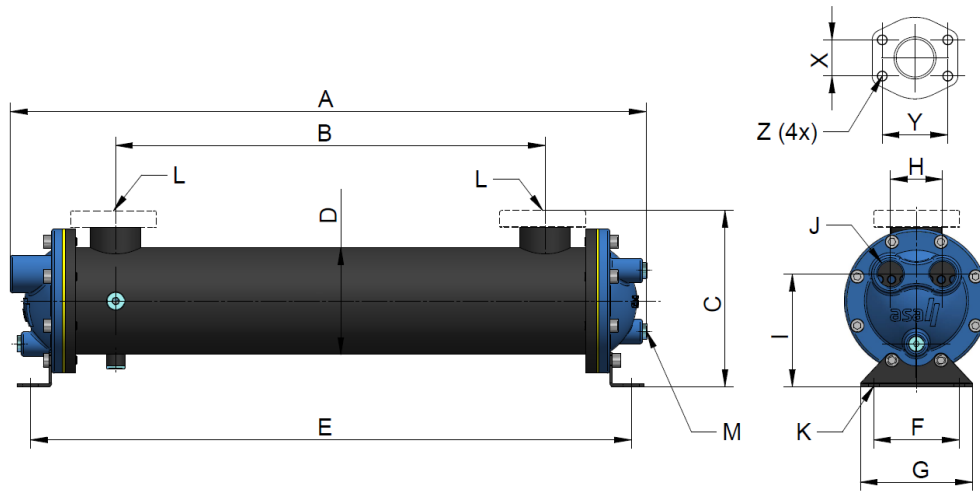
Oil/Water Coolers, ST Series

Shell tubes heat exchanger



FOUR PASS

Dimension



SAE Flange	X	Y	Z
1 ½"	1.42	2.76	M12
2"	1.69	3.07	M12
3"	2.44	4.17	M16

Technical Data

order number	A	B	C		D	E	F	G	H	I	J	K	L		M	weight
	[in]	[in]	BSPP [in]	SAE [in]	Ø [in]	[in]	[in]	[in]	[in]	[in]	BSPP/ NPT	slot [in]	BSPP/ NPT	SAE	BSPP	[lbs]
ILWSTCA....03144FU00	16.18	8.98	5.47	5.71	3.50	16.69	2.99	5.00	1.77	3.31	½"	0.43x0.75	1 ½"	1 ½"	¼"	19.8
ILWSTCA....03244FU00	26.18	18.98	5.47	5.71	3.50	26.73	2.99	5.00	1.77	3.31	½"	0.43x0.75	1 ½"	1 ½"	¼"	26.5
ILWSTCA....05184FU00	20.55	12.20	7.68	8.31	5.00	21.46	4.02	6.50	2.52	4.92	¾"	0.43x0.98	1 ½"	2"	¼"	41.9
ILWSTCA....05244FU00	26.54	18.19	7.68	8.31	5.00	27.44	4.02	6.50	2.52	4.92	¾"	0.43x0.98	1 ½"	2"	¼"	50.7
ILWSTCA....05364FU00	38.54	30.20	7.68	8.31	5.00	39.45	4.02	6.50	2.52	4.92	¾"	0.43x0.98	1 ½"	2"	¼"	66.1
ILWSTDA....05244FU00	30.00	20.12	7.48	7.99	5.24	27.44	4.02	5.24	2.44	5.28	1"	0.51x0.75	1 ½"	2"	¼"	44.1
ILWSTDA....05364FU00	42.01	32.13	7.48	7.99	5.24	39.45	4.02	5.24	2.44	5.28	1"	0.51x0.75	1 ½"	2"	¼"	66.1
ILWSTDA....06244FU00	30.12	19.02	8.74	9.37	6.26	28.11	6.26	7.76	2.87	5.91	1 ½"	0.51x0.75	2"	2"	⅜"	99.2
ILWSTDA....06364FU00	42.13	30.98	8.74	9.37	6.26	42.95	6.26	7.76	2.87	5.91	1 ½"	0.51x0.75	2"	2"	⅜"	125.7
ILWSTDA....06484FU00	54.13	42.99	8.74	9.37	6.26	52.13	6.26	7.76	2.87	5.91	1 ½"	0.51x0.75	2"	2"	⅜"	149.9
ILWSTDA....08364FU00	45.24	30.75	11.50	12.52	8.62	41.89	8.27	10.51	4.25	7.48	2"	0.63x0.87	3"	3"	⅜"	200.6
ILWSTDA....08484FU00	57.24	42.76	11.50	12.52	8.62	53.90	8.27	10.51	4.25	7.48	2"	0.63x0.87	3"	3"	⅜"	251.3
ILWSTDA....08604FU00	69.25	54.76	11.50	12.52	8.62	65.91	8.27	10.51	4.25	7.48	2"	0.63x0.87	3"	3"	⅜"	302.0



This data sheet and the corresponding scale drawings are to be used as a general guideline and technical overview of our products. Please contact us if more exact information is needed. As we are constantly improving our products, their characteristics, dimensions and weights may also change, although we do our best to incorporate these changes continually. asa assumes no liability for any information therein, any errors, omissions, misprints, nor any direct or indirect damages, losses or costs resulting therefrom. Any cooling performances and general technical values indicated in this catalogue are measured at a test bench according to asa testing procedures or calculated, based on such tests. They represent a basis for your product selection. Due to different conditions in testing and application environments the performance may also vary by +/- 15%. All sound values are determined in accordance with ISO 9614-2, DIN EN ISO 11203 accuracy class 3 or Machinery Directive 2006/42/EG and are A-rated. At some of the performance data, possible differences to competition data are possible. The reason to that are no existing standardized testing procedures on individual subjects, e.g. for cooling performance measurements. Therefore, we recommend all products to be checked under the system operating conditions. This is also true of vibrations and mechanical stress as well as for pressure peaks and thermal stress and any other relevant factors. General tolerances according to DIN ISO 2768-vL. General tolerances for casted parts according to EN ISO 8062-3 (DCTG 10). Tolerances for rubber parts are according to ISO 3302-1 (class M4-F+C). The tolerances of welding seams are defined by quality group D according to EN ISO 10042, if it is not specified on the actual scale drawing or data sheet. Any form of liability is excluded for the information included in this datasheet. All details and calculation values are checked to the best of our ability, but these do not ensure any intrinsic product properties; due to the wide-ranging possible applications, it is advised that all technical data herewith included be confirmed through testing carried out by the end-user. asa technology Produktions- und Vertriebs GmbH reserves the right to modify the product without any separate notification. This refers to both technical data and the product itself. Furthermore, it is herewith specified that the datasheet does not substitute the corresponding scale drawings, assembly and installation guidelines, nor the operating instructions.

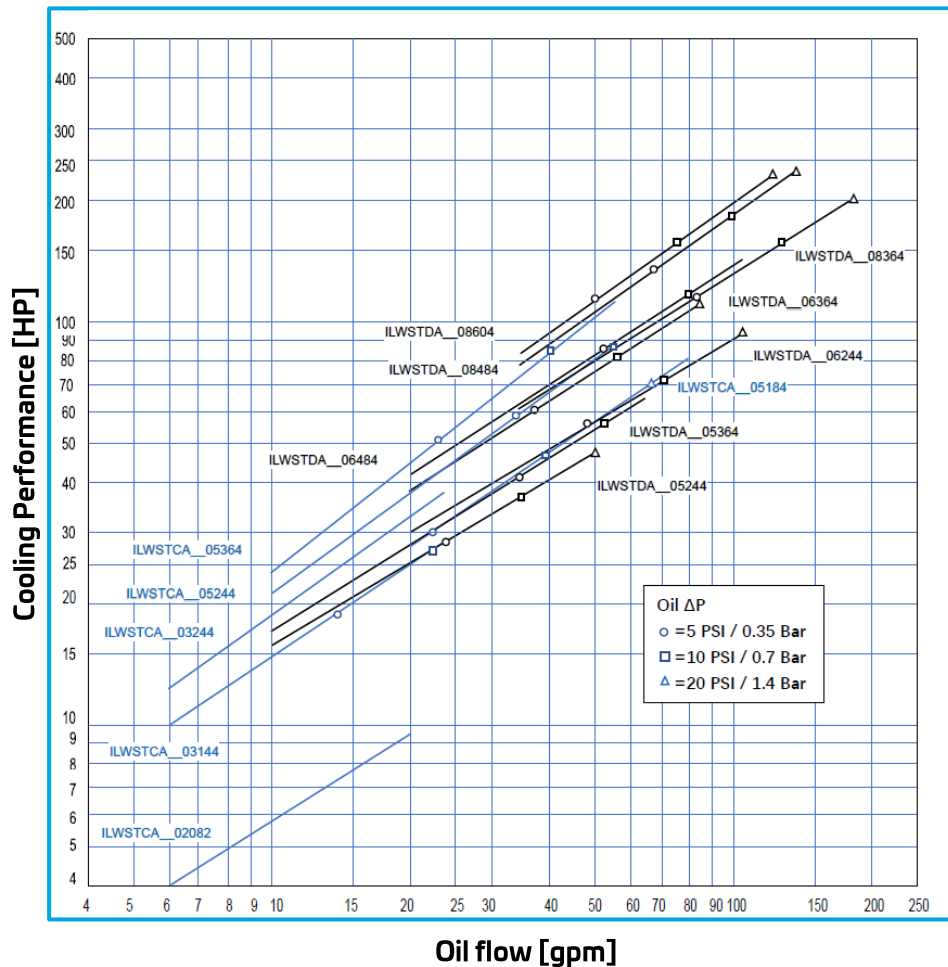
Oil/Water Coolers, ST Series

Shell tubes heat exchanger



Performance

4:1 Oil to Water Ratio-Medium Water Usage



Maximum Water Flow Rates 4 Pass	
size	[gpm]
2"	n/a
3"	6.1
5" (5mm)	14.0
5" (9,5 mm)	16.1
6"	30.1
8"	65.0

Oil/Water Coolers, ST Series

Shell tubes heat exchanger

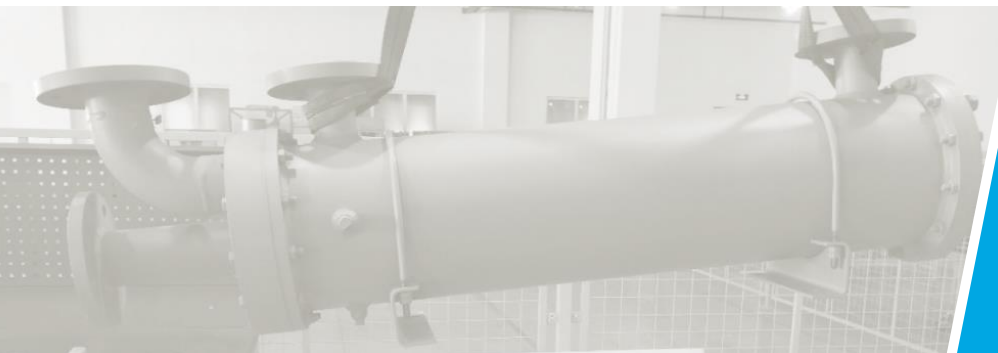
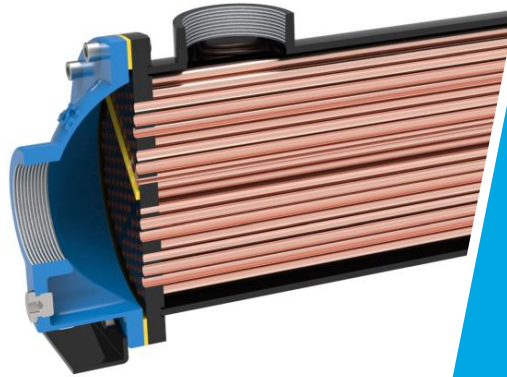
Customized to your applications

Apart from the actual application parameters of the fan drive, ambient conditions and scope of delivery, we offer customized heat exchanger solutions for many types of fluids. Please contact us with your specific requirements and use our benefits regarding consultation and most realistic verification.

Selection	Application
Type of fluids	Ambient / fluid conditions for material configuration
Flow rates	Connection size and flange types
In/outlet temperatures or heat load data	Space restrictions and mounting situation
Allowable pressure drops	Possible specified water fouling factors
Operating and design pressure	

your advantages:

- ✓ project management
- ✓ calculation and simulation
- ✓ verification on test bench
- ✓ procurement option system
- ✓ approved quality





**discover reliable
technology!**

**be different.
make a difference.**



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