

7.1 Brazed Plate Heat Exchangers

The Brazed Heat Exchangers from Alfa Laval are the perfect heat exchangers for utilities like heating-water or steam.



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	CB									
	16	18	20	30	60	110	112	200	300	400
Main duties										
Dairy										
Milk Cooling										
Milk/cream pasteurization										
Cultured milk cooling										
Whey pasteurization										
Ice cream pasteurization										
Brewery										
Wort cooling										
Beer cooling										
Beer pasteurization										
Beverages										
Clarified juices, drinks, wine										
Juice/drinks with pulp/fibres										
Clarified fruit & sugar conc.										
Clody fruit concentrate										
Other food										
Low viscous products										
High viscous products										
Sticky/chunky/particles										
Vegetable oil										
Pharma										
Pre-heating in water purification										
In-line heater WFI/PW										
Point of use cooler WFI/PW										
Heating of holding tank WFI/PW										
Product heating/cooling										
Utilities										
CIP Heating										
Water heating/cooling

CBH16-CB300

Alfa Laval CB16-CB300 - Brazen Plate Heat Exchanger

General information

Alfa Laval introduced its first brazen plate heat exchanger (BHE) in 1977 and has since continuously developed and optimized its performance and reliability.

Brazen the stainless steel plates together eliminates the need for gaskets and thick frame plates. The brazen material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. The plate design guarantees the longest possible life.

The design options of the brazen heat exchanger are extensive. Different plate patterns are available for various duties and performance specifications. You can choose a standard configuration BHE, or a unit designed according to your own specific needs. The choice is entirely yours.

Typical applications

- HVAC heating/cooling
- Industrial heating/cooling
- Condensing
- Tapwater
- Oil cooling
- Airdryer
- Solar heating

Working principles

The heating surface consists of thin corrugated metal plates stacked on top of each other. Channels are formed between the plates and corner ports are arranged so that the two media flow through alternate channels, usually in countercurrent flow for the most efficient heat transfer process.

Standard design

The plate pack is covered by cover plates. Connections are located in the front or rear cover plate. To improve the heat transfer design, the channel plates are corrugated.

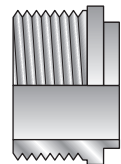
Particulars required for quotation

To enable Alfa Laval's representative to make a specific quotation, specify the following particulars in your enquiry:

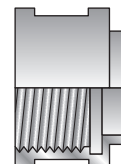
- Required flow rates or heat load
- Temperature program
- Physical properties of liquids in question
- Desired working pressure
- Maximum permitted pressure drop



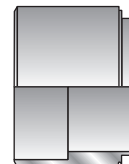
Examples of connections*



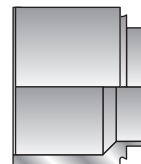
External threaded



Internal threaded



Soldering



Welding

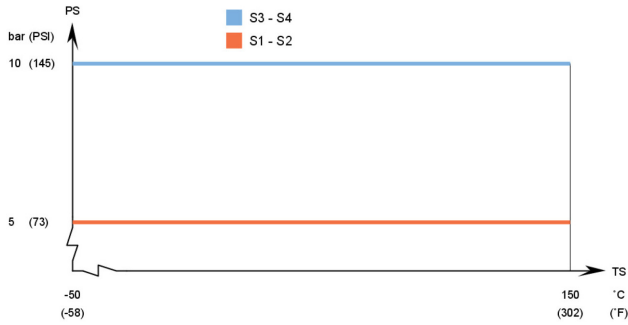


Vitaulic

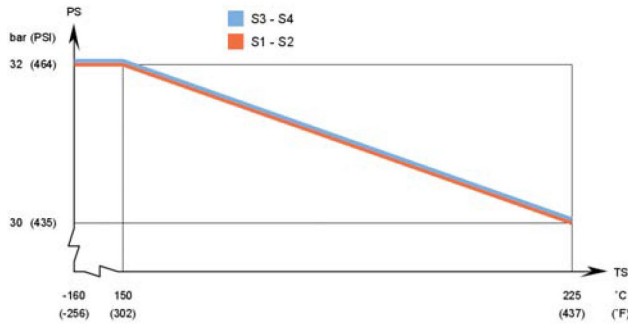
* More connections are available on request.

Technical data for CB16

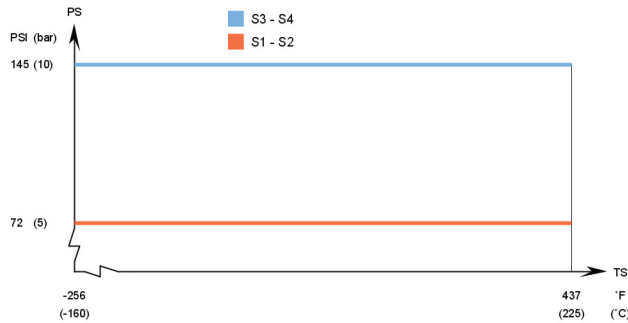
CB16 - PED approval pressure/temperature graph*



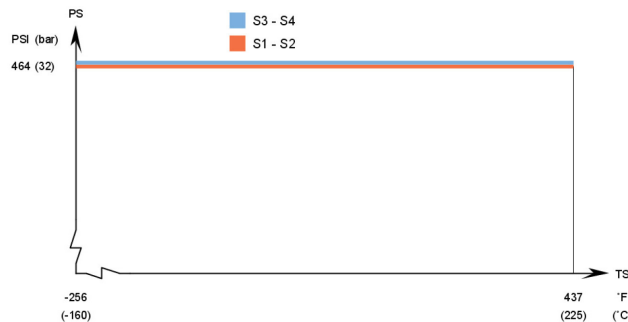
CBH16 - PED approval pressure/temperature graph*



CB16 - UL approval pressure/temperature graph*



CBH16 - UL approval pressure/temperature graph*



Standard dimensions and weight*

CB16

A measure mm	=	7 + (2.16 * n) (+/-2 %)
A measure inch	=	0.28 + (0.09 * n) (+/-2 %)
Weight** kg	=	0.14 + (0.04 * n)
Weight** lb	=	0.3 + (0.09 * n)

CBH16

A measure mm	=	8 + (2.16 * n) (+/-2 %)
A measure inch	=	0.31 + (0.09 * n) (+/-2 %)
Weight** kg	=	0.27 + (0.04 * n)
Weight** lb	=	0.59 + (0.09 * n)

(n = number of plates)

* Excluding connections

Standard data

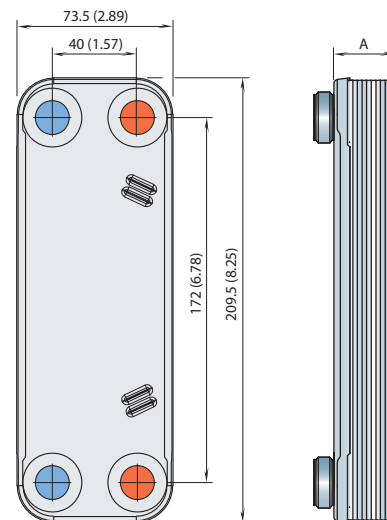
Min. working temperature	see graph
Max. working temperature	see graph
Min. working pressure	vacuum
Max. working pressure	see graph
Volume per channel H, litres (ga)	0.027 (0.0070)
Volume per channel A, litres (ga)	0.030 (0.0078)
	0.024 (0.0063)
Max. flowrate* m3/h (gpm)	3.62 (15.93)
Min. nbr of plates	4
Max. nbr of plates	60
* Water at 5 m/s (16.4 ft/s) (connection velocity)	

Standard materials

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

Standard dimensions

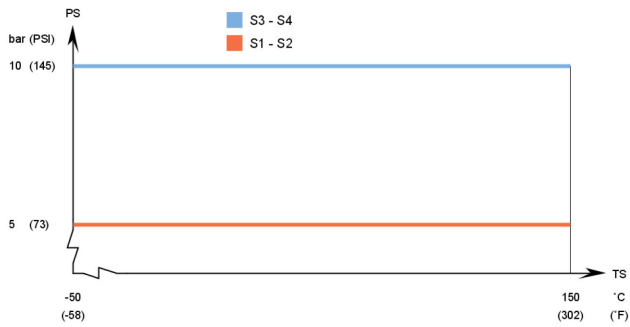
Standard dimensions



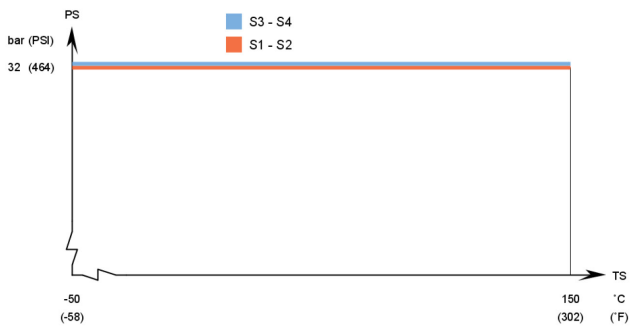
For exact values please contact your local Alfa Laval representative

Technical data for CB18

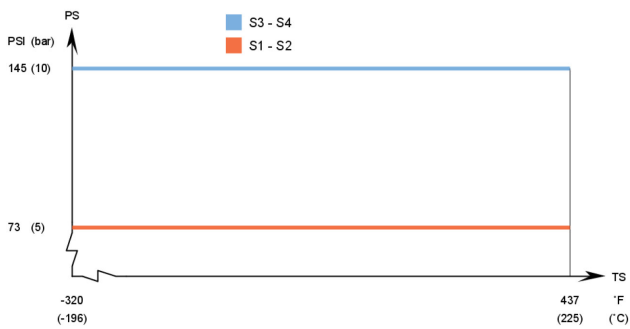
CB18 - PED approval pressure/temperature graph* H, A



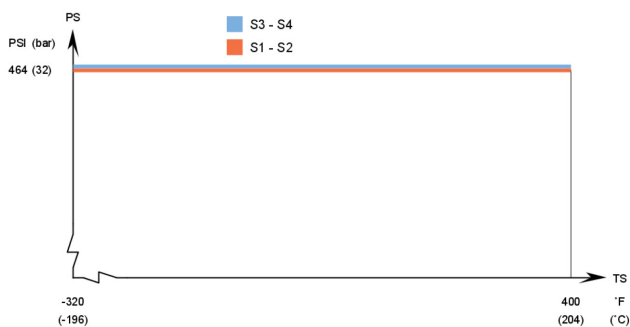
CBH18 - PED approval pressure/temperature graph* H



CB18 - UL approval pressure/temperature graph*



CB18 - UL approval pressure/temperature graph*



Standard dimensions and weight*

CB18

A measure mm	=	$7 + (2.16 * n)$ (+/-2 %)
A measure inch	=	$0.28 + (0.09 * n)$ (+/-2 %)
Weight** kg	=	$0.22 + (0.07 * n)$
Weight** lb	=	$0.48 + (0.15 * n)$

CBH18

A measure mm	=	$8 + (2.16 * n)$ (+/-2 %)
A measure inch	=	$0.31 + (0.09 * n)$ (+/-2 %)
Weight** kg	=	$0.4 + (0.07 * n)$
Weight** lb	=	$0.88 + (0.15 * n)$

(n = number of plates)

* Excluding connections

Standard data

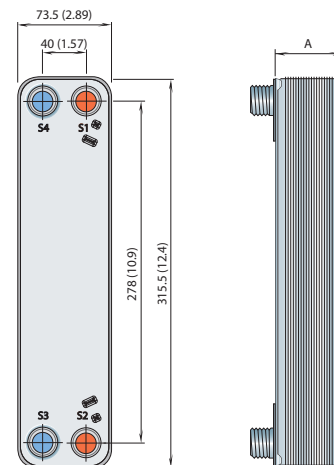
Min. working temperature	see graph
Max. working temperature	see graph
Min. working pressure	vacuum
Max. working pressure	see graph
Volume per channel H, litres (ga)	0.038 (0.010)
Volume per channel A, litres (ga)	0.042 (0.011)
Max. particle size mm (inch)	1.1 (0.04)
Max. flowrate* m ³ /h (gpm)	3.62 (15.93)
Min. nbr of plates	4
Max. nbr of plates	60
* Water at 5 m/s (16.4 ft/s) (connection velocity)	

Standard materials

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

Standard dimensions

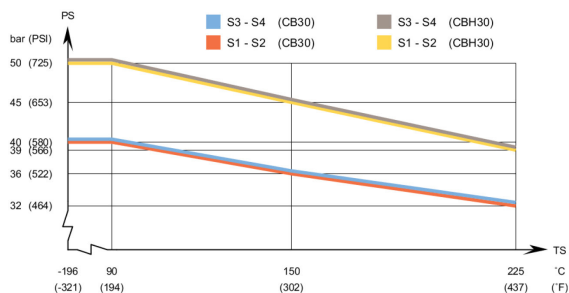
mm (inch)



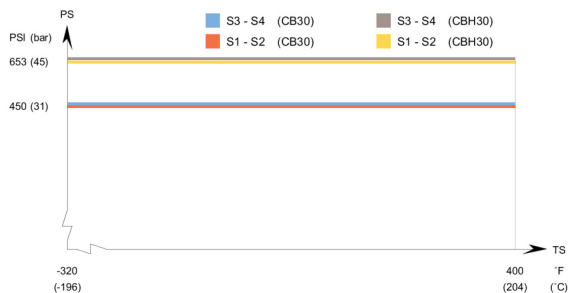
For exact values please contact your local Alfa Laval representative

Technical data for CB30

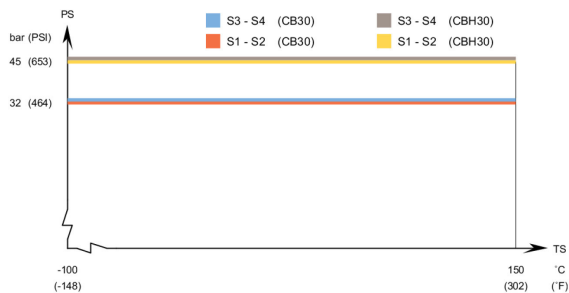
CB30 / CBH30 - PED approval pressure/temperature graph



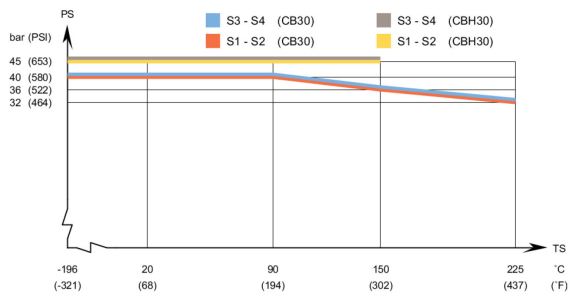
CB30 / CBH30 - UL approval pressure/temperature graph



CB30 / CBH30 - KHK and KRA approval pressure/temperature graph



CB30 / CBH30 -CRN approval pressure/temperature graph



Standard data

Min. working temperature	see graph
Max. working temperature	see graph
Min. working pressure	vacuum
Max. working pressure	see graph
Volume per channel, litres (ga)	0.054 (0.014)
Max. particle size mm (inch)	1 (0.04)
Max. flowrate* m3/h (gpm)	14 (61.6)
Min. nbr of plates	4
Max. nbr of plates	150

* Water at 5 m/s (16.4 ft/s) (connection velocity)

Standard materials

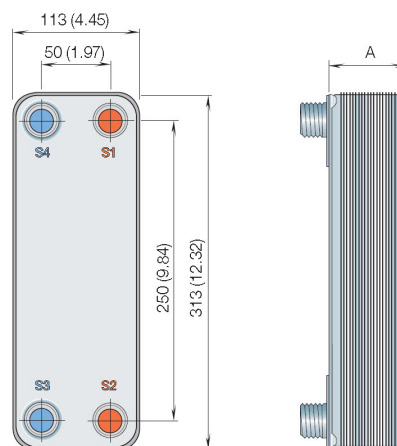
Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

Standard dimensions and weight

- CB30
- A measure mm = $13 + (2.31 * n) (\pm 2 \text{ mm or } \pm 1.5 \%)$
 - A measure inch = $0.51 + (0.09 * n) (\pm 0.08 \text{ inch or } \pm 1.5 \%)$
 - Weight** kg = $1.2 + (0.11 * n)$
 - Weight** lb = $2.65 + (0.24 * n)$
- CBH30
- A measure mm = $15 + (2.31 * n) \pm 1.5 \%$
 - A measure inch = $0.59 + (0.09 * n) \pm 0.06 \%$
 - Weight** kg = $1.35 + (0.11 * n)$
 - Weight** lb = $2.98 + (0.24 * n)$
- (n = number of plates)
** Excluding connections

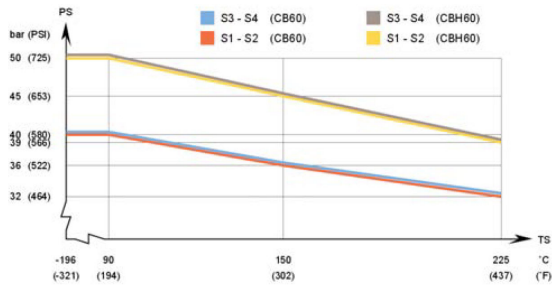
Standard dimensions

mm (inch) for exact values please contact your local Alfa laval representative

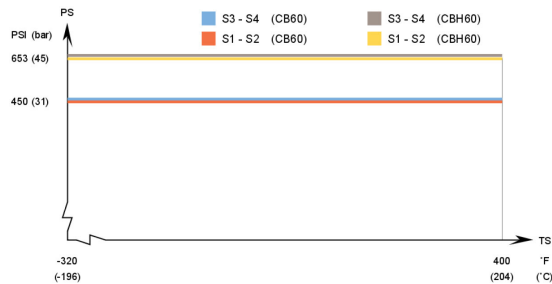


Technical data for CB60

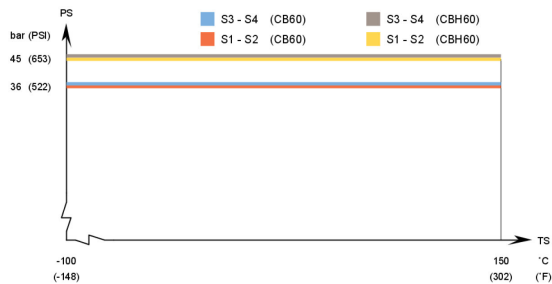
CB60 and CBH60 - PED approval pressure/temperature graph*



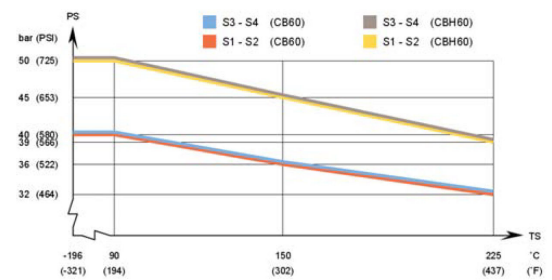
CB60 and CBH60 - UL approval pressure/temperature graph*



CB60 / CBH60 - KHK and KRA approval pressure/temperature graph*



CB60 / CBH60 - CRN approval pressure/temperature graph*



Standard data

Min. working temperature	see graph
Max. working temperature	see graph
Min. working pressure	vacuum
Max. working pressure	see graph
Volume per channel, litres (ga)	0.10 (0.027)
Max. particle size mm (inch)	1 (0.04)
Max. flowrate* m ³ /h (gpm)	14.5 (63.7)
Min. nbr of plates	4
Max. nbr of plates	150

* Water at 5 m/s (16.4 ft/s) (connection velocity)

Standard materials

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

Standard dimensions and weight*

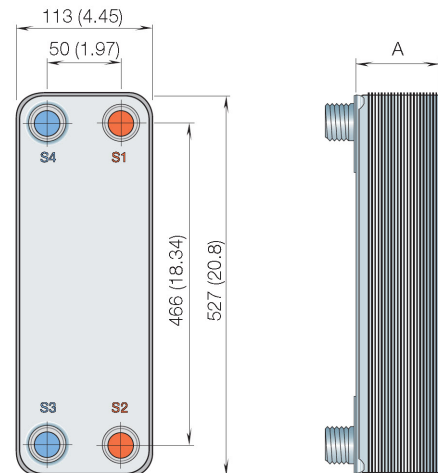
A measure mm	=	13 + (2.35 * n) (+/-1.5 %)
A measure inch	=	0.51 + (0.09 * n) (+/-1.5 %)
Weight** kg	=	2.1 + (0.18 * n)
Weight** lb	=	4.63 + (0.4 * n)

(n = number of plates)

* Excluding connections

Standard dimensions

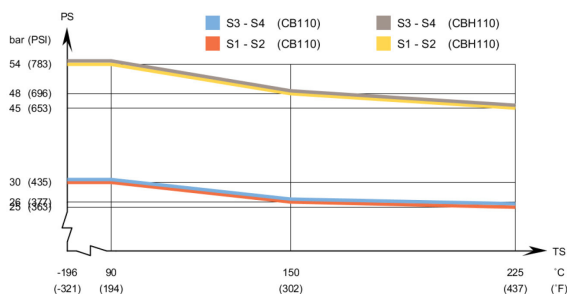
mm (inch)



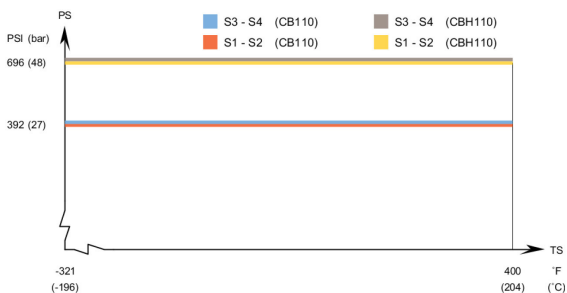
For exact values please contact your local Alfa Laval representative

Technical data for CB110

CB110 / CBH110- PED approval pressure/temperature graph



CB110 / CBH110- UL approval pressure/temperature graph



Standard dimensions and weight*

CB110

- A measure mm = 15 + (2.56 * n) (±2 mm or ±1.5 %)
- A measure inch = 0.59 + (0.1 * n) (±0.08 inch or ±1.5 %)
- Weight* kg = 4.82 + (0.32 * n)
- Weight* lb = 10.63 + (0.71 * n)

CBH110

- A measure mm = 15 + (2.56 * n) (±2 mm or ±1.5 %)
- A measure mm = 0.59 + (0.1 * n) (±0.08 inch or ±1.5 %)
- Weight* kg = 5.68 + (0.32 * n)
- Weight* lb = 12.52 + (0.71 * n)

(n = number of plates)

* Excluding connections

Standard data

Min. working temperature	see graph
Max. working temperature	see graph
Min. working pressure	vacuum
Max. working pressure	see graph
Volume per channel H, L, M, litres (ga)	0.21 (0.05)
Max. particle size mm (inch)	1.2 (0.05)
Max. flowrate* m3/h (gpm)	51 (224)
Min. nbr of plates	10
Max. nbr of plates	240

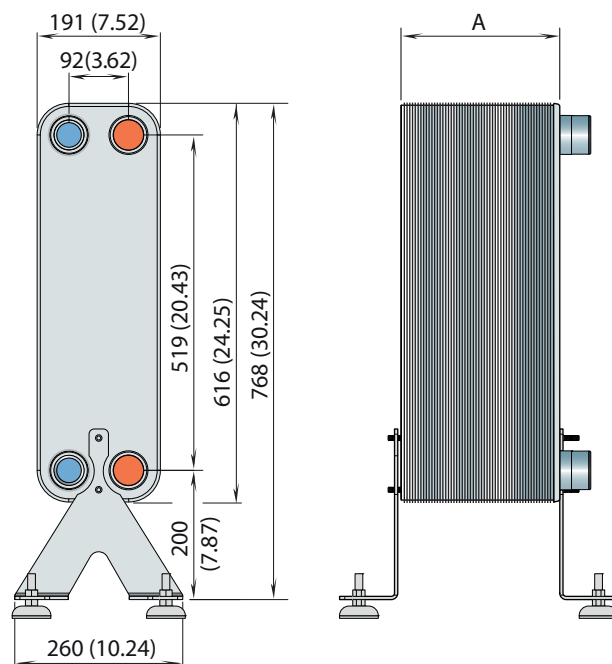
* Water at 5 m/s (16.4 ft/s) (connection velocity)

Standard materials

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

Standard dimensions

mm (inch)



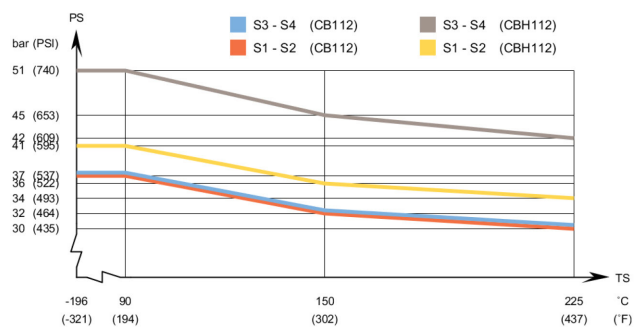
For exact values please contact your local Alfa Laval representative

Marine approvals

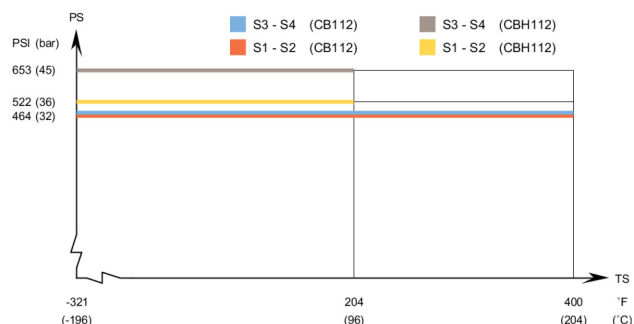
CBM110 can be delivered with marine classification certificate (ABS, BV, CCS, Class NK, DNV, GL, LR, RINA, RMRS).

Technical data for CB112

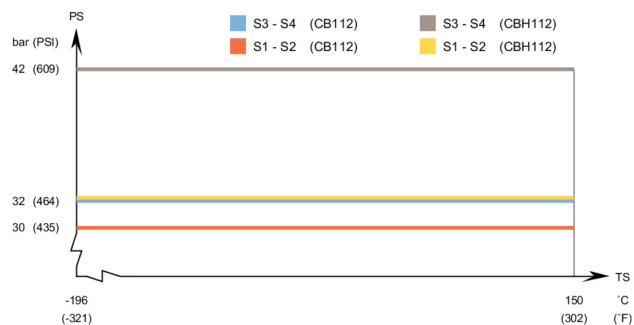
CB112 / CBH112 - PED approval pressure/temperature graph



CB112 / CBH112 - UL approval pressure/temperature graph



CB112 / CBH112 - KHK approval pressure/temperature graph



Standard dimensions and weight*

CB112

A measure mm	=	16 + (2.07 * n) (±3 mm or ±1.5 %)
A measure inch	=	0.63 + (0.08 * n) (±0.12 inch or ±1.5 %)
Weight* kg	=	4.82 + (0.35 * n)
Weight* lb	=	10.63 + (0.77 * n)

CBH112

A measure mm	=	16 + (2.07 * n) (±3 mm or ±1.5 %)
A measure inch	=	0.63 + (0.08 * n) (±0.12 inch or ±1.5 %)
Weight* kg	=	5.68 + (0.35 * n)
Weight* lb	=	12.52 + (0.77 * n)

(n = number of plates)

* Excluding connections and reinforcements

Standard data

Min. working temperature	see graph
Max. working temperature	see graph
Min. working pressure	vacuum
Max. working pressure	see graph
Volume per channel H, L, M, litres (ga)	0.18 (0.046)
Volume per channel AH, AM, litres (ga)	0.20 (0.052)
Max. particle size mm (inch)	1 (0.04)
Max. flowrate* m ³ /h (gpm)	51 (224.4)
Min. nbr of plates	10
Max. nbr of plates	300

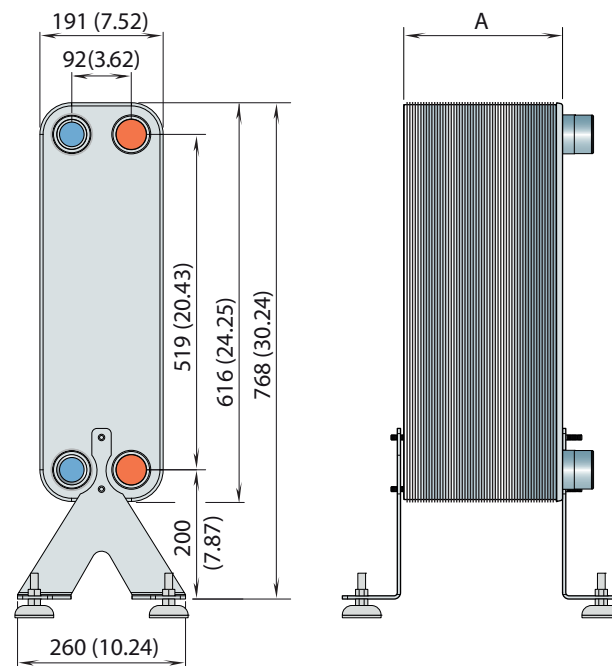
* Water at 5 m/s (16.4 ft/s) (connection velocity)

Standard materials

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper

Standard dimensions

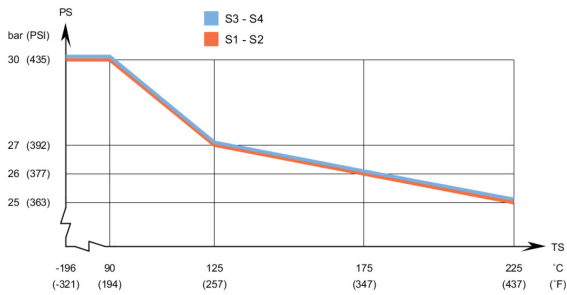
mm (inch)



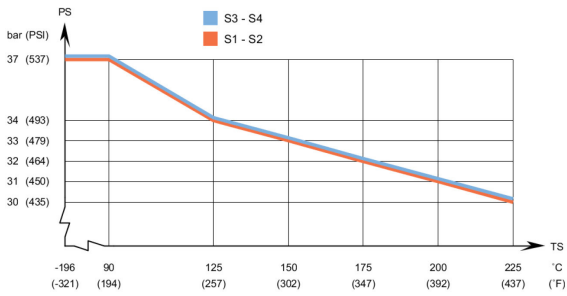
For exact values please contact your local Alfa Laval representative

Technical data for CB200

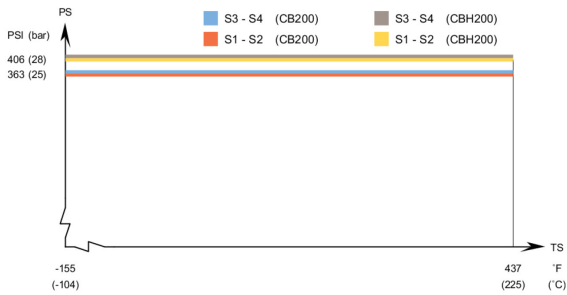
CB200 - PED approval pressure/temperature graph*



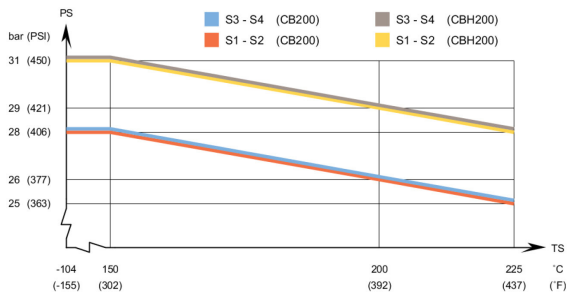
CBH200 - PED approval pressure/temperature graph*



CB200 / CBH200 - ASME approval pressure/temperature graph*



CB200 / CBH200 - CRN approval pressure/temperature graph*



Standard dimensions and weight*

CB200

- A measure mm = 11 + (2.7 * n) (+/-10 mm)
- A measure inch = 0.43 + (0.11 * n) (+/-0.39 inch)
- Weight* kg = 12 + (0.6 * n)
- Weight* lb = 26.46 + (1.32 * n)

CBH200

- A measure mm = 14 + (2.7 * n) (+/-10 mm)
- A measure inch = 0.55 + (0.11 * n) (+/-0.39 inch)
- Weight* kg = 14 + (0.6 * n)
- Weight* lb = 30.86 + (1.32 * n)

(n = number of plates)

* Excluding connections

Standard data

Min. working temperature	see graph
Max. working temperature	see graph
Min. working pressure	vacuum
Max. working pressure	see graph
Volume per channel, litres (ga)	0.51 (0.13)
Max. particle size mm (inch)	1.8 (0.07)
Max. flowrate* m3/h (gpm)	128 (561)
Min. nbr of plates	10
Max. nbr of plates	230

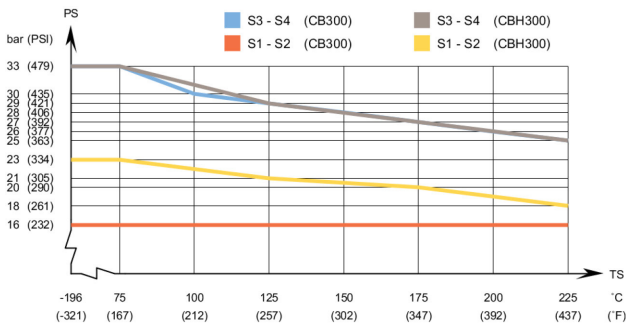
* Water at 5 m/s (16.4 ft/s) (connection velocity)

Standard materials

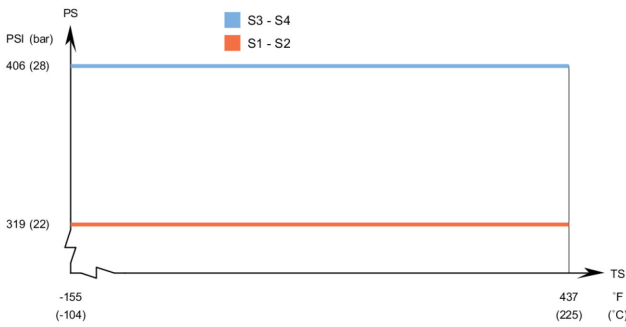
Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing material	Copper

Technical data for CB300

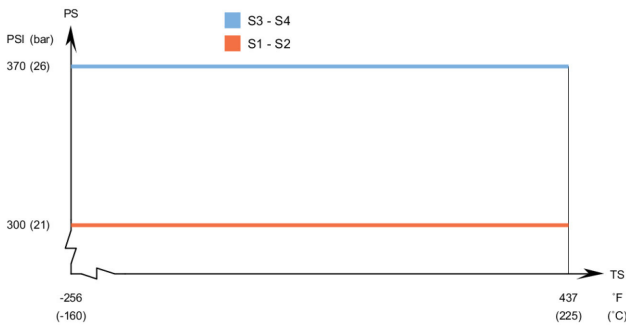
CB300 / CBH300 - PED approval pressure/temperature graph*



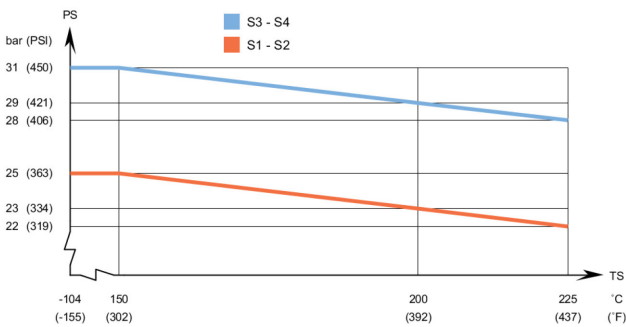
CB300 - ASME approval pressure/temperature graph*



CB300 - UL approval pressure/temperature graph*



CB300 - CRN approval pressure/temperature graph*



Standard data

Min. working temperature	see graph
Max. working temperature	see graph
Min. working pressure	vacuum
Max. working pressure	see graph
Volume per channel S1/S2, litres (ga)	0.69 (0.18)
Volume per channel S3/S4, litres (ga)	0.58 (0.15)
Max. particle size mm (inch)	1.8 (0.07)
Max. flowrate S1/S2 m3/h (gpm)*	200 (881)
Min. nbr of plates	10
Max. nbr of plates	250

* Water at 5 m/s (16.4 ft/s) (connection velocity)

Standard materials

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing material	Copper

Standard dimensions and weight*

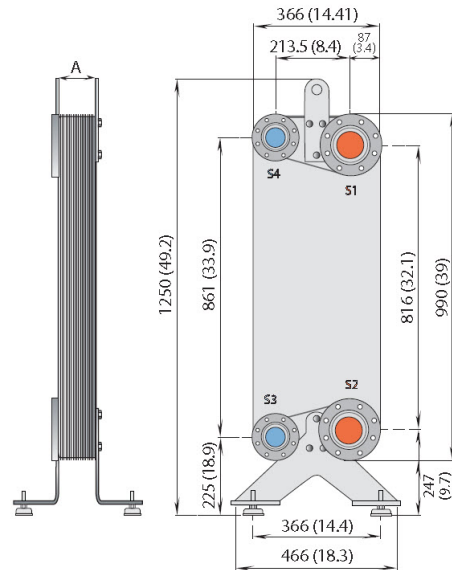
A measure mm	=	11 + (2.62 * n) (+/-10 mm)
A measure inch	=	0.43 + (0.1 * n) (+/-0.39 inch)
Weight* kg	=	21 + (1.26 * n)
Weight* lb	=	46.3 + (2.78 * n)

(n = number of plates)

* Excluding connections

Standard dimensions

mm (inch)



Braze plate heat exchangers range . Many of Alfa Laval's braze heat exchangers are available directly from stock. If a more customized specification is required we offer a configure to order service. If you have no accesses to the configuration tool please contact your local Alfa Laval sales representative.

Model (Prices valid from 1 January, 2015)	Article no.	Price EUR	Plate pack dim. L x W x H	Weight kg/unit	Insulation Article no.	Price EUR
Connections: ISO G 3/4" externally threaded, length 20 mm						
H-channels (Z31, Z31)						
CBH16-9H	3287087068	206	45 X 74 X 210	0.9	3456119701	36
CBH16-13H	3287087069	246	54 X 74 X 210	1.1	3456119701	36
CBH16-17H	3287087071	284	62 X 74 X 210	1.2	3456119701	36
CBH16-25H	3287087072	363	80 X 74 X 210	1.6	3456119702	38
CBH16-35H	3287087073	461	101 X 74 X 210	2	3456119702	38
CBH16-41H	3287087074	521	114 X 74 X 210	2.2	3456119702	38
Connections: ISO G 3/4" externally threaded, length 20 mm (Z31, Z31)						
Economy pack						
CBH16-13H (82 units/box)	3287103312	15132				
CBH16-17H (64 units/box)	3287103313	13663				
CBH16-25H (52 units/box)	3287103314	14156				
CBH16-35H (59 units/box)	3287131519	20408				
CBH16 Extras						
DN15 3/4", Pipe: CS, Nut: CS. Gasket included, include 2 pcs	3456632401	23				
DN15 3/4", Pipe: CS, Nut: CS. Gasket included, include 50 pcs	3456632402	487				
15 mm 3/4", Pipe: Brass, Nut: CS, Nut: CS. Gasket included, include 2 pcs	3456634601	36				
Extra gasket fitting for 3/4" couplings. include 2 pcs	3456636101	2				
ADITEG 3/4" / DN20 coupling (Brass) include 2 pcs	3456643701	27				
Insulation type B: Max 17 plates	3456119701	36	81 X 120 X 248			
Insulation type B: Max 45 plates	3456119702	38	142 X 120 X 248			
Wall mounting bracket	3236020425	121				

Model	Article no.	Price EUR	Plate pack dim. L x W x H	Weight kg/unit	Insulation Article no.	Price EUR
Connections: ISO G 3/4" externally threaded, length 20 mm						
H-channels (Z31, Z31)						
CBH16-9H	3287087068	206	45 X 74 X 210	0.9	3456119701	36
CBH16-13H	3287087069	246	54 X 74 X 210	1.1	3456119701	36
CBH16-17H	3287087071	284	62 X 74 X 210	1.2	3456119701	36
CBH16-25H	3287087072	363	80 X 74 X 210	1.6	3456119702	38
CBH16-35H	3287087073	461	101 X 74 X 210	2	3456119702	38
CBH16-41H	3287087074	521	114 X 74 X 210	2.2	3456119702	38
Connections: ISO G 3/4" externally threaded, length 20 mm (Z31, Z31)						
Economy pack						
CBH16-13H (82 units/box)	3287103312	15132				
CBH16-17H (64 units/box)	3287103313	13663				
CBH16-25H (52 units/box)	3287103314	14156				
CBH16-35H (59 units/box)	3287131519	20408				
CBH16 Extras						
DN15 3/4", Pipe: CS, Nut: CS. Gasket included, include 2 pcs	3456632401	23				
DN15 3/4", Pipe: CS, Nut: CS. Gasket included, include 50 pcs	3456632402	487				
15 mm 3/4", Pipe: Brass, Nut: CS, Nut: CS. Gasket included, include 2 pcs	3456634601	36				
Extra gasket fitting for 3/4" couplings. include 2 pcs	3456636101	2				
ADITEG 3/4" / DN20 coupling (Brass) include 2 pcs	3456643701	27				
Insulation type B: Max 17 plates	3456119701	36	81 X 120 X 248			
Insulation type B: Max 45 plates	3456119702	38	142 X 120 X 248			
Wall mounting bracket	3236020425	121				

Product code: 3462

PED approved
 Design temperature (°C): 175
 Design pressure (S3/S4, S1/S2): 16/16
 Max. no. of plates with CE Mark (fluid group 2): 222

Heat Exchanger					Insulation Type A		
Model	Item No.	PPL EUR	Plate pack dim. (mm) L x W x H	Weight kg/unit	Item No.	PPL EUR	
Connections: ISO G 1" Externally threaded, length 24 mm							
CB20-12H (B21,B21)	3287000012	324	49 X 94 X 324	2.1	164394701	134	
CB20-18H (B21,B21)	3287000013	391	58 X 94 X 324	2.6	164394701	134	
CB20-40H (B21,B21)	3287000016	644	91 X 94 X 324	4.4	164394702	138	
CB20-50H (B21,B21)	3287000017	755	106 X 94 X 324	5.2	164394702	138	
CB20-60H (B21,B21)	3287000018	870	121 X 94 X 324	6.0	164394702	138	
CB20-80H (B21,B21)	3287000019	1101	151 X 94 X 324	7.6	164394703	144	
CB20-90H (B21,B21)	3287000020	1211	166 X 94 X 324	8.4	164394703	144	
CB20-110H (B21,B21)	3287000021	1441	196 X 94 X 324	10.0	164394704	148	

Extras						
Screw Fittings	Item No.	PPL EUR	Plate pack dim. (mm) L x W x H	Weight kg/unit	Comment	
Insulation Type A: Polyurethane with blue ABS cover. Max. temperature 130 degrees						
Max. 30 plates	164394701	134	113 X 157 X 384	0.8		
Max. 60 plates	164394702	138	158 X 157 X 384	0.9		
Max. 90 plates	164394703	144	203 X 157 X 384	1.0		
Max. 120 plates	164394704	148	248 X 157 X 384	1.1		
Floor stand	164428901	82		0.7		

Product code: 3520

 PED approved
 Design temperature (°C): 225
 Design pressure (S3/S4, S1/S2): 32/32

Heat Exchanger						Insulation Type A	
Model		Item No.	PPL EUR	Plate pack dim. (mm) L x W x H	Weight kg/unit	Item No.	PPL EUR
Connections: S1/S2 ISO G 1¼" Externally threaded, length 45 mm - S3/S4 ISO G 1" Externally threaded, length 45 mm							
H-Channels							
CB30-10H (V22,V24)		3287083361	388	81 X 113 X 313	3.5	3236000881	140
CB30-18H (V22,V24)		3287083287	1052	100 X 113 X 313	4.4	3236000881	140
CB30-24H (V22,V24)		3287083286	549	113 X 113 X 313	5.1	3236000882	142
CB30-34H (V22,V24)		3287083363	656	137 X 113 X 313	6.2	3236000882	142
CB30-50H (V22,V24)		3287083364	834	174 X 113 X 313	8.0	3236000883	144
CB30-70H (V22,V24)		3287083365	1052	220 X 113 X 313	10.2	3236000884	147
CB30-100H (V22,V24)		3287083366	1382	289 X 113 X 313	13.7	3236000885	150
CB30-120H (V22,V24)		3287083367	1602	335 X 113 X 313	15.9	3236000886	155
M-Channels							
CB30-10M (V22,V24)		3287083368	388	81 X 113 X 313	35.	3236000881	140
CB30-18M (V22,V24)		3287083369	480	100 X 113 X 313	4.4	3236000881	140
CB30-24M (V22,V24)		3287083370	549	113 X 113 X 313	5.1	3236000882	142
CB30-34M (V22,V24)		3287083371	656	137 X 113 X 313	6.2	3236000882	142
CB30-50M (V22,V24)		3287083372	834	174 X 113 X 313	8.0	3236000883	144
CB30-70M (V22,V24)		3287083373	1052	220 X 113 X 313	10.2	3236000884	147
CB30-100M (V22,V24)		3287083374	1382	289 X 113 X 313	13.7	3236000885	150
CB30-120M (V22,V24)		3287083375	1602	335 X 113 X 313	15.9	3236000886	155
L-Channels							
CB30-10L (V22,V24)		3287083377	388	81 X 113 X 313	3.5	3236000881	140
CB30-18L (V22,V24)		3287083378	480	100 X 113 X 313	4.4	3236000881	140
CB30-24L (V22,V24)		3287083379	549	113 X 113 X 313	5.1	3236000882	142
CB30-34L (V22,V24)		3287083380	656	137 X 113 X 313	6.2	3236000882	142
CB30-50L (V22,V24)		3287083381	834	174 X 113 X 313	8.0	3236000883	144
CB30-70L (V22,V24)		3287083382	1052	220 X 113 X 313	10.2	3236000884	147
CB30-100L (V22,V24)		3287083383	1382	289 X 113 X 313	13.7	3236000885	150
CB30-120L (V22,V24)		3287083384	1602	335 X 113 X 313	15.9	3236000886	155
Connections: ISO G 1" Externally threaded, length 45 mm							
CB30-10H (V22,V22)		3287082389	385	81 X 113 X 313	3.4	3236000881	140
CB30-18H (V22,V22)		3287083385	476	100 X 113 X 313	4.3	3236000881	140
CB30-24H (V22,V22)		3287083386	546	113 X 113 X 313	5.0	3236000882	142
CB30-34H (V22,V22)		3287083387	652	137 X 113 X 313	6.1	3236000882	142
CB30-50H (V22,V22)		3287083388	832	174 X 113 X 313	7.8	3236000883	144
CB30-60H (V22,V22)		3287083294	943	197 X 113 X 313	8.9	3236000883	144
Two pass							
CB30-24H (V22,V24) (2,2)		3287084071	638	150 X 113 X 313	4.5	3236000882	142
CB30-50H (V22,V24) (2,2)		3287084072	988	211 X 113 X 313	7.3	3236000883	144
Two pass - Six connections pre/post heater design							
CB30-50H (V22,V24)		3287084064	1021	211 X 113 X 313	8.3	3236000883	144
CB30-70H (V22,V24)		3287084065	1394	257 X 113 X 313	10.5	3236000884	147
CB30-100H (V22,V24)		3287084066	1693	326 X 113 X 313	14.0	3236000885	150
CB30-120H (V22,V24)		3287084067	1965	372 X 113 X 313	16.2	3236000886	155

Product code: 3501 / 3520

Extras					
Model	Item No.	PPL EUR	Dim. (mm) L x W x H	Weight kg/unit	Comment
Insulation Type A: Polyurethane with blue ABS cover. Max. temperature 130 degrees					
Max. 20 plates	3236000881	140	112 X 182 X 360	0.7	
Max. 40 plates	3236000882	142	160 X 182 X 360	0.8	
Max. 60 plates	3236000883	144	209 X 182 X 360	0.9	
Max. 80 plates	3236000884	147	257 X 182 X 360	1.0	
Max. 100 plates	3236000885	150	304 X 182 X 360	1.2	
Max. 120 plates	3236000886	155	352 X 182 X 360	1.3	
Insulation Type B: Black, Polypropylene (EPP) without blue ABS cover. Max. temperature 110 degrees					
Max. 25 plates	3456104601	35	113 X 156 X 354	0.2	
Max. 50 plates	3456104602	37	173 X 156 X 354	0.2	
Max. 100 plates	3456104603	40	293 X 156 X 354	0.3	
Insulation type P: Min. temperature -45°C. Max. Temperature 110°C. Min. temperature -45°C					
Max. 14 plates	3456213901	62		0.1	
Max. 24 plates	3456213902	64		0.2	
Max. 34 plates	3456213903	66		0.2	
Max. 50 plates	3456213905	71		0.2	
Max. 70 plates	3456213907	76		0.3	
Max. 100 plates	3456213908	83		0.4	

Product code: 3550

PED approved
 Design temperature (°C): 225
 Design pressure (S3/S4, S1/S2): 32/32

Heat Exchanger						Insulation Type A	
Model	Item No.	PPL EUR	Plate pack dim. (mm) L x W x H	Weight kg/unit	Item No.	PPL EUR	
CB52 - Connections: S1/S2 ISO G 1¼" Externally threaded, length 45 mm - S3/S4 ISO G 1" Externally threaded, length 45 mm							
H-Channels							
CB60-10H (V22, V24)	3287079641	485	82 X 113 X 527	4.5	3236000892	157	
CB60-20H (V22, V24)	3287079642	667	105 X 113 X 527	6.2	3236000892	157	
CB60-40H (V22, V24)	3287079644	1037	152 X 113 X 527	9.7	3236000892	157	
CB60-50H (V22, V24)	3287079645	1222	176 X 113 X 527	11.5	3236000894	165	
CB60-60H (V22, V24)	3287079646	1403	199 X 113 X 527	13.3	3236000894	165	
CB60-80H (V22, V24)	3287079647	1767	246 X 113 X 527	16.8	3236000894	165	
CB60-100H (V22, V24)	3287079648	2133	293 X 113 X 527	20.3	3236000895	168	
Connections: ISO G 1" Externally threaded, length 45 mm							
Two pass							
CB60-30H (V22, V22) (2,2)	3287079665	1041	166 X 113 X 527	7.9	3236000892	157	
CB60-430H (V22, V22) (2,2)	3287079666	1241	189 X 113 X 527	9.6	3236000892	157	
CB60-60H (V22, V22) (2,2)	3287079667	1642	236 X 113 X 527	13.1	3236000893	161	
H-Channels							
CB60-30H (V22, V22)	3287079651	850	129 X 113 X 527	7.9	3236000892	157	
CB60-40H (V22, V22)	3287079652	1032	152 X 113 X 527	9.6	3236000892	157	

Product code: 3550

Extras					
Model	Item No.	PPL EUR	Dim. (mm) L x W x H	Weight kg/unit	Comment
Insulation type P: Min. temperature -45°C					
Max. Temperature 110°C. Min. temperature -45°C					
Max. 20 plates	3456214101	77		0.3	
Max. 34 plates	3456214102	81		0.3	
Max. 40 plates	3456214103	84		0.4	
Max. 50 plates	3456214104	88		0.4	
Max. 60 plates	3456214105	92		0.4	
Max. 80 plates	3456214107	99		0.5	

*Have to be ordered together with 162965401

Model	Article no.	Price EUR	Plate pack dim. L x W x H	Weight kg/unit	Insulation Article no.	Price EUR
Connections: ISO G 2" externally threaded, length 48 mm						
H-channels (B23, B23)						
CB110-16H	3287101553	1519	104 X191 X 616	14	3236000901	180
CB110-20H	3287101554	1737	114 X191 X 616	15.3	3236000901	180
CB110-24H	3287101555	1913	124 X191 X 616	16.6	3236000901	180
CB110-30H	3287101556	2272	140 X191 X 616	18.5	3236000901	180
CB110-38H	3287101557	2655	160 X191 X 616	21.4	3236000902	188
CB110-46H	3287101558	3194	181 X191 X 616	24	3236000902	188
CB110-54H	3287101559	3488	201 X191 X 616	26.6	3236000902	188
CB110-64H	3287101560	3830	227 X191 X 616	29.8	3236000903	198
CB110-76H	3287101561	4273	258 X191 X 616	33.7	3236000903	198
Connections: ISO G 2" externally threaded, length 48 mm						
M-channels (B23, B23)						
CB110-16M	3287101587	1519	104 X191 X 616	14	3236000901	180
CB110-20M	3287101588	1737	114 X191 X 616	15.3	3236000901	180
CB110-24M	3287101589	1913	124 X191 X 616	16.6	3236000901	180
CB110-30M	3287101590	2272	140 X191 X 616	18.5	3236000901	180
CB110-38M	3287101591	2655	160 X191 X 616	21.4	3236000902	188
CB110-46M	3287101592	3194	181 X191 X 616	24	3236000902	188
CB110-54M	3287101593	3488	201 X191 X 616	26.6	3236000902	188
CB110-64M	3287101594	3830	227 X191 X 616	29.8	3236000903	198
CB110-76M	3287101595	4273	258 X191 X 616	33.7	3236000903	198
CB110-90M	3287101596	4996	293 X191 X 616	38.2	3236000903	198
CB110-120M	3287101597	6557	370 X191 X 616	47.9	3236000904	206
CB110-90H	3287101562	4996	293 X191 X 616	38.2		
CB110-120H	3287101563	6557	370 X191 X 616	47.9		
L-channels (B23, B23)						
CB110-16L	3287101598	1519	104 X191 X 616	14	3236000901	180
CB110-20L	3287101599	1737	114 X191 X 616	15.3	3236000901	180
CB110-24L	3287101600	1913	124 X191 X 616	16.6	3236000901	180
CB110-30L	3287101601	2272	140 X191 X 616	18.5	3236000901	180
CB110-38L	3287101602	2655	160 X191 X 616	21.4	3236000902	188
CB110-46L	3287101603	3194	181 X191 X 616	24	3236000902	188
CB110-54L	3287101604	3488	201 X191 X 616	26.6	3236000902	188
CB110-64L	3287101605	3830	227 X191 X 616	29.8	3236000903	198
CB110-76L	3287101606	4273	258 X191 X 616	33.7	3236000903	198
CB110-90L	3287101607	4996	293 X191 X 616	38.2	3236000903	198
CB110-120L	3287101608	6557	370 X191 X 616	47.9	3236000904	206

Model	Article no.	Price EUR	Plate pack dim. L x W x H	Weight kg/unit	Insulation Article no.	Price EUR
Connections: S1/S2 ISO G2"externally threaded connections, length 48 mm S3/S4 ISOG 2½" externally threaded connections, length 48 mm (O4 for CB110/CB112 same as B25 for CB77)						
H-channels (B23, O4)						
CB110-54H	3287101740	3507	201 X191 X 616	26.9	3236000902	188
CB110-70H	3287101741	4283	242 X191 X 616	32	3236000903	198
CB110-76H	3287101742	4324	258 X191 X 616	34	3236000903	198
CB110-82H	3287101743	4665	273 X191 X 616	35.9	3236000903	198
CB110-94H	3287101744	5338	304 X191 X 616	39.8	3236000904	206
CB110-100H	3287101745	5679	319 X191 X 616	41.7	3236000904	206
CB110-112H	3287101746	6229	350 X191 X 616	45.6	3236000904	206
CB110-120H	3287101747	6294	370 X191 X 616	48.2	3236000904	206
M-channels (B23, O4)						
CB110-38M	3287101748	2726	160 X191 X 616	21.7	3236000902	188
CB110-54M	3287101749	3507	201 X191 X 616	26.9	3236000902	188
CB110-70M	3287101750	4283	242 X191 X 616	32	3236000903	198
L-channels (B23, O4)						
CB110-46L	3287118764	3145	181 X191 X 616	24.3	3236000902	188
CB110-54L	3287118765	3507	201 X191 X 616	26.9	3236000902	188
CB110-64L	3287118766	3933	227 X191 X 616	30.1	3236000903	198
CB110-76L	3287117952	4324	258 X191 X 616	34	3236000903	198
Connections: S1/S2 76 mm stainless steel welding connections, length 48 mm S3/S4ISO G2" externally threaded connections, length 48 mm (O5 for CB110/CB112 same as J25 for CB77)						
L-channels (B23, O5)						
CB110-16L	3287101751	1602	104 X191 X 616	14.1	3236000901	180
CB110-20L	3287101752	1817	114 X191 X 616	15.4	3236000901	180
CB110-24L	3287101753	2002	124 X191 X 616	16.7	3236000901	180
CB110-30L	3287101754	2360	140 X191 X 616	18.7	3236000901	180
CB110-38L	3287101755	2750	160 X191 X 616	21.5	3236000902	188
CB110-46L	3287101756	3145	181 X191 X 616	24.1	3236000902	188
CB110-54L	3287101757	3507	201 X191 X 616	26.7	3236000902	188
CB110-64L	3287101758	3933	227 X191 X 616	29.9	3236000903	198
CB110-76L	3287101759	4324	258 X191 X 616	33.8	3236000903	198
CB110-90L	3287101760	5111	293 X191 X 616	38.3	3236000903	198
CB110-120L	3287101761	6294	370 X191 X 616	48	3236000904	206

Model	Article no.	Price EUR	Plate pack dim. L x W x H	Weight kg/unit	Insulation Article no.	Price EUR
H-channels (B23, B23)						
CB112-24H	3287108556	1913	114 X191 X 616	17.2	3236000901	180
CB112-30H	3287108557	2272	126 X191 X 616	19.3	3236000901	180
CB112-38H	3287103028	2655	143 X191 X 616	22.1	3236000901	180
CB112-46H	3287108558	3194	159 X191 X 616	25.1	3236000902	188
CB112-54H	3287108559	3488	176 X191 X 616	27.9	3236000902	188
CB112-62H	3287108560	3830	192 X191 X 616	30.7	3236000902	188
CB112-72H	3287108561	4269	213 X191 X 616	34.2	3236000902	188
CB112-80H	3287108562	4596	230 X191 X 616	37	3236000902	188
CB112-90H	3287108563	5247	250 X191 X 616	40.5	3236000903	198
CB112-100H	3287108564	5836	271 X191 X 616	44	3236000903	198
CB112-120H	3287107991	6402	312 X191 X 616	51	3236000903	198
M-channels (B23, B23)						
CB112-24M	3287108567	1913	114 X191 X 616	17.2	3236000901	180
CB112-30M	3287108568	2272	126 X191 X 616	19.3	3236000901	180
CB112-38M	3287108569	2655	143 X191 X 616	22.1	3236000901	180
CB112-46M	3287108570	3194	159 X191 X 616	25.1	3236000902	188
CB112-54M	3287108571	3488	176 X191 X 616	27.9	3236000902	188
CB112-62M	3287108572	3830	192 X191 X 616	30.7	3236000902	188
CB112-72M	3287108573	4269	213 X191 X 616	34.2	3236000902	188
CB112-80M	3287101227	4596	230 X191 X 616	37	3236000902	188
CB112-90M	3287108574	5046	250 X191 X 616	40.5	3236000903	198
CB112-100M	3287108575	5836	271 X191 X 616	44	3236000903	198
CB112-120M	3287108576	6402	312 X191 X 616	51	3236000903	198
L-channels (B23, B23)						
CB112-24L	3287108577	1913	114 X191 X 616	17.2	3236000901	180
CB112-30L	3287108578	2272	126 X191 X 616	19.3	3236000901	180
CB112-38L	3287108579	2655	143 X191 X 616	22.1	3236000901	180
CB112-46L	3287108580	3194	159 X191 X 616	25.1	3236000902	188
CB112-54L	3287108581	3488	176 X191 X 616	27.9	3236000902	188
CB112-62L	3287108582	3830	192 X191 X 616	30.7	3236000902	188
CB112-72L	3287108583	4269	213 X191 X 616	34.2	3236000902	188
CB112-80L	3287108584	4596	230 X191 X 616	37	3236000902	188
CB112-90L	3287108585	5247	250 X191 X 616	40.5	3236000903	198
CB112-100L	3287108586	5836	271 X191 X 616	44	3236000903	198
CB112-120L	3287108587	6402	312 X191 X 616	51	3236000903	198
Two pass - Six connections pre/post heater design (B23, B23) (2.2)						
CB112-30L	3287119176	2519	164 X191 X 616	20.3		
CB112-46L	3287119177	3290	197 X191 X 616	25.9		
CB112-64L	3287119178	4157	234 X191 X 616	32.2		
CB112-76L	3287119179	4734	259 X191 X 616	36.4		
CB112-90L	3287119180	5408	288 X191 X 616	41.3		
CB112-120L	3287119181	6851	350 X191 X 616	51.8		

Model	Article no.	Price EUR
CB110 and CB112 Extras		
DN50 2" Pipe & Nut: CS Gasket included include 2 pcs	3456631601	71
DN50 2" Pipe & Nut: CS Gasket included include 30 pcs	3456631602	959
DN50 2½" Pipe & Nut: CS Gasket included include 2 pcs	3456639501	145
DN65 2½" Pipe & Nut: CS Gasket included include 2 pcs	3456634801	212
DN40 2" Pipe & Nut: CS Gasket included include 2 pcs	3456632501	79
DN40 2" Pipe & Nut: CS Gasket included include 30 pcs	3456632502	1072
42 mm. Pipe: Brass, Nut: CS, Nut: CS. Gasket included include 2 pcs	3456634401	133
54 mm. Pipe: Brass, Nut: CS, Nut: CS. Gasket included include 2 pcs	3456631801	143
Gasket for 2" fitting include 50 pcs	3456639902	118
Gasket for 2½" fitting include 2 pcs	3456640001	5
ADITEG 2" / DN50 Couplings (Brass) include 2 pcs	3456643901	114
Rigid foot	3456544501	210

Product code: 3482

PED approved
 Design temperature (°C): 175
 Design pressure (S3/S4, S1/S2): 26/26
 Max. no. of plates without CE Mark: 6

Heat Exchanger					
Model		Item No.	PPL EUR	Plate pack dim. (mm) L x W x H	Weight kg/unit
Connections:		Primary side (S3/S4): LFS23 - Stainless steel flanges (loose type) - PN25, DN80, DIN 2635 Secondary side (S1/S2): LFS23 - Stainless steel flanges (loose type) - PN25, DN80, DIN 2635			
High theta units					
CB200-30H (LFS23,LFS23)		3287000255	4433	92 x 324 x 742	56.6
CB200-40H (LFS23,LFS23)		3287000256	4921	118 x 324 x 742	62.6
CB200-64H (LFS23,LFS23)		3287000258	6104	182 x 324 x 742	77.0
CB200-80H (LFS23,LFS23)		3287000259	6891	225 x 324 x 742	86.6
CB200-100H (LFS23,LFS23) incl. mounted insulation		3287056283	8895	278 x 324 x 742	103.9
CB200-124H (LFS23 ,LFS23)		3287000261	9051	341 x 324 x 742	113.0
CB200-124H (LFS23, LFS23) incl. mounted insulation		3287000766	10072	341 x 324 x 742	119.3
CB200-174H (LFS23, LFS23)		3287000263	11511	474 x 324 x 742	143.0
CB200-200H (LFS23 ,LFS23)		3287000264	12784	542 x 324 x 742	158.6
Medium theta units					
CB200-30M (LFS23, LFS23)		3287000265	4433	92 x 324 x 742	56.6
CB200-40M (LFS23, LFS23)		3287000266	4921	118 x 324 x 742	62.6
CB200-50M (LFS23, LFS23)		3287000267	5416	146 x 324 x 742	62.9
CB200-50M (LFS23,LFS23) incl. mounted insulation		3287050029	6438	146 x 324 x 742	74.9
CB200-64M (LFS23, LFS23)		3287000268	6104	182 x 324 x 742	77.0
CB200-80M (LFS23, LFS23)		3287000269	6891	225 x 324 x 742	86.6
CB200-80M (LFS23, LFS23) incl. mounted insulation		3287000763	7912	225 x 324 x 742	92.9
CB200-100M (LFS23, LFS23)		3287000270	7873	278 x 324 x 742	98.6
CB200-100M (LFS23 ,LFS23) incl. mounted insulation		3287000764	8895	278 x 324 x 742	104.9
CB200-124M (LFS23, LFS23)		3287000271	9051	341 x 324 x 742	113.0
CB200-124M (LFS23, LFS23)		3287050006	10072	341 x 324 x 742	119.3
CB200-174M (LFS23, LFS23)		3287000273	11511	474 x 324 x 742	143.0
CB200-200M (LFS23, LFS23)		3287000274	12784	542 x 324 x 742	158.6
Low theta units					
CB200-64L (LFS23, LFS23)		3287000278	6104	182 x 324 x 742	77.0
CB200-80L (LFS23 ,LFS23)		3287000279	6891	225 x 324 x 742	86.6
CB200-80L (LFS23,LFS23) incl. mounted insulation		3287050145	7912	225 x 324 x 742	92.9
CB200-124L (LFS23, LFS23)		3287000281	9051	341 x 324 x 742	113.0
CB200-150L (LFS23, LFS23)		3287000282	10333	410 x 324 x 742	128.6
CB200-174L (LFS23, LFS23)		3287000283	11511	474 x 324 x 742	143.0
CB200-200L (LFS23, LFS23)		3287000284	12784	542 x 324 x 742	158.6

Product code: 3522

PED approved
 Design temperature (°C): 175
 Design pressure (S3/S4, S1/S2): 27/16
 Max. no. of plates without CE Mark: 3

Heat Exchanger					
Model		Item No.	PPL EUR	Plate pack dim. (mm) L x W x H	Weight kg/unit
Connections: Primary side (S3/S4): LFS11 - Stainless steel flanges (loose type) - PN25, DN65, DIN 2635 Secondary side (S1/S2): LFS12 - Stainless steel flanges (loose type) - PN16, DN100, DIN 2633					
High theta units					
CB300-30H (LFS11,LFS12)		3287000315	6522	90 X 366 X 990	89.9
CB300-40H (LFS11,LFS12)		3287000316	7257	116 X 366 X 990	102.5
CB300-50H (LFS11,LFS12)		3287000317	7988	142 X 366 X 990	115.1
CB300-64H (LFS11,LFS12)		3287000318	9010	179 X 366 X 990	132.7
CB300-100H (LFS11,LFS12)		3287000320	11633	273 X 366 X 990	178.1
CB300-124H (LFS11,LFS12)		3287000321	13381	336 X 366 X 990	208.3
CB300-150H (LFS11,LFS12)		3287000322	15276	404 X 366 X 990	241.1
CB300-150H (LFS11,LFS12) incl. mounted insulation		3287000769	16122	404 X 366 X 990	241.1
CB300-180H (LFS11,LFS12)		3287000323	17463	483 X 366 X 990	278.9
CB300-210H (LFS11,LFS12)		3287000324	19647	561 X 366 X 990	316.7
CB300-250H (LFS11,LFS12)		3287000325	22566	666 X 366 X 990	367.1
Medium theta units					
CB300-30M (LFS11,LFS12)		3287000326	6533	90 X 366 X 990	89.9
CB300-40M (LFS11,LFS12)		3287000327	7257	116 X 366 X 990	102.5
CB300-50M (LFS11,LFS12)		3287000328	7988	142 X 366 X 990	115.1
CB300-64M (LFS11,LFS12)		3287000329	9010	179 X 366 X 990	132.7
CB300-64M (LFS11,LFS12) incl. mounted insulation		3287000767	9853	179 X 366 X 990	132.7
CB300-80M (LFS11,LFS12)		3287000330	10174	221 X 366 X 990	152.9
CB300-100M (LFS11,LFS12)		3287000331	11633	273 X 366 X 990	178.1
CB300-100M (LFS11,LFS12) incl. mounted insulation		3287000768	12477	273 X 366 X 990	178.1
CB300-124M (LFS11,LFS12)		3287000332	13381	336 X 366 X 990	208.3
CB300-150M (LFS11,LFS12)		3287000333	15276	404 X 366 X 990	241.1
CB300-180M (LFS11,LFS12)		3287000334	17463	483 X 366 X 990	278.9
CB300-210M (LFS11,LFS12)		3287000335	19647	561 X 366 X 990	316.7
CB300-250M (LFS11,LFS12)		3287000336	22566	666 X 366 X 990	367.1
Low theta units					
CB300-50L (LFS11,LFS12)		3287000339	7988	142 X 366 X 990	115.1
CB300-64L (LFS11,LFS12)		3287000340	9010	179 X 366 X 990	132.7
CB300-64L (LFS11,LFS12) incl. mounted insulation		3287050044	9853	179 X 366 X 990	132.7
CB300-80L (LFS11,LFS12)		3287000341	10174	221 X 366 X 990	152.9
CB300-100L (LFS11,LFS12)		3287000342	11633	273 X 366 X 990	178.1
CB300-124L (LFS11,LFS12)		3287000343	13381	336 X 366 X 990	208.3
CB300-150L (LFS11,LFS12)		3287000344	15276	404 X 366 X 990	241.1
CB300-180L (LFS11,LFS12)		3287000345	17463	483 X 366 X 990	278.9
CB300-210L (LFS11,LFS12)		3287000346	19647	561 X 366 X 990	316.7
CB300-250L (LFS11,LFS12)		3287000347	22566	666 X 366 X 990	367.1