Alfa Laval CB16 / CBH16

Brazed plate heat exchanger

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Applications
- HVAC heating and cooling
- Oil cooling
- Industrial heating and cooling

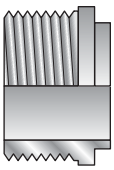
Benefits
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

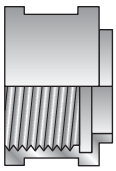
Design
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

Different pressure ratings are available for different needs.

Based on standard components and a modular concept, including symmetric and asymmetric channels, each unit is custom-built to meet the specific requirements of each individual installation.

Examples of connections


External thread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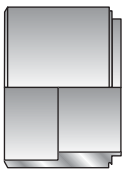

Soldering

Technical Data

Standard materials

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

Dimensions and weight[1]

A measure (mm)	7 + (2.16 * n)
A measure (inches)	0.28 + (0.09 * n)
Weight (kg)[2]	0.14 + (0.04 * n)
Weight (lb)[2]	0.3 + (0.09 * n)

1. n = number of plates
2. Excluding connections

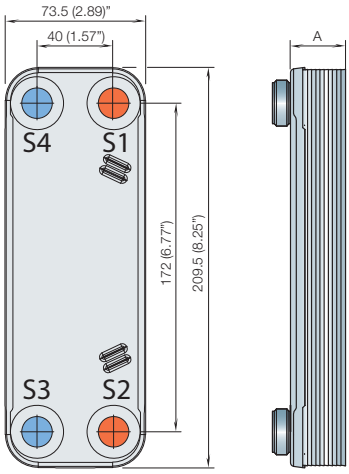
Standard data

Volume per channel, litres (gal)	A (S1-S2): 0.030 (0.0078) A (S3-S4):0.024 (0.0063) H: 0.027 (0.0070)
Max. particle size, mm (inch)	1.1 (0.043)
Max. flowrate[1] m^3/h (gpm)	4.1 (18)
Flow direction	Parallel
Min. number of plates	4
Max. number of plates	60

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

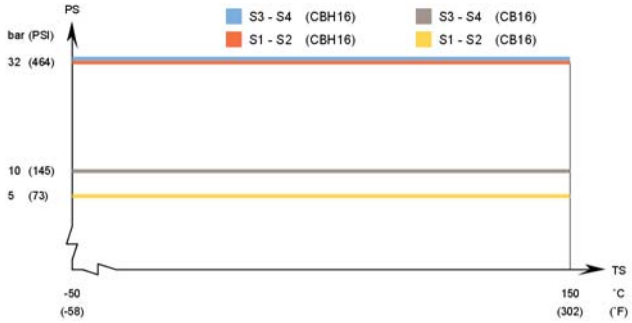
Dimensional drawing

Measurements in mm (inches)

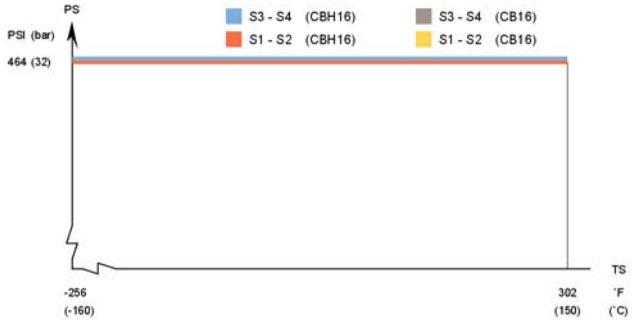


Design pressure and temperature

CB16/CBH16 – PED approval pressure/temperature graph



CBH16 – UL/CRN approval pressure/temperature graph



Designed for full vacuum.

Alfa Laval plate heat exchangers are available with a wide range of pressure vessel approvals. Please contact your Alfa Laval representative for more information.

NOTE: Values above are to be used as an indication. For exact values, please use the drawing generated by the Alfa Laval configurator or contact your local Alfa Laval representative.

How to contact Alfa Laval
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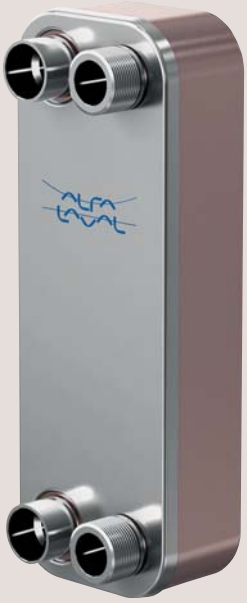
Alfa Laval CB30 / CBH30 / CBP30

Brazed plate heat exchanger



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Applications
- HVAC heating and cooling
- Refrigeration
- Oil cooling
- Industrial heating and cooling

Benefits
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

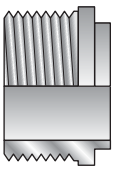
Design
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

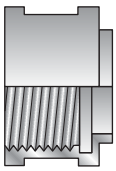
Different pressure ratings are available for different needs.

The unit can be supplied with a refrigerant distribution system for optimal evaporator performance.

Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

Examples of connections


External thread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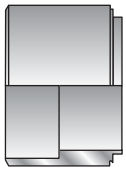
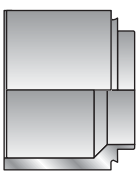

Soldering


Welding

Technical Data

Standard materials

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

Dimensions and weight[1]

A measure (mm)	13 + (2.31 * n)
A measure (inches)	0.51 + (0.09 * n)
Weight (kg)[2]	1.2 + (0.11 * n)
Weight (lb)[2]	2.65 + (0.24 * n)

1. n = number of plates
2. Excluding connections

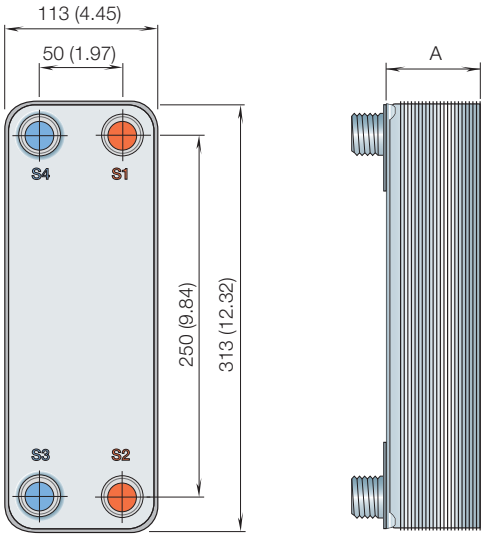
Standard data

Volume per channel, litres (gal)	0.054 (0.014)
Max. particle size, mm (inch)	1 (0.039)
Max. flowrate[1] m^3/h (gpm)	14 (62)
Flow direction	Parallel
Min. number of plates	4
Max. number of plates	150

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

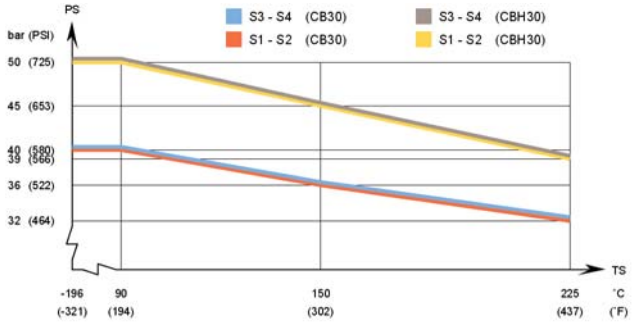
Dimensional drawing

Measurements in mm (inches)

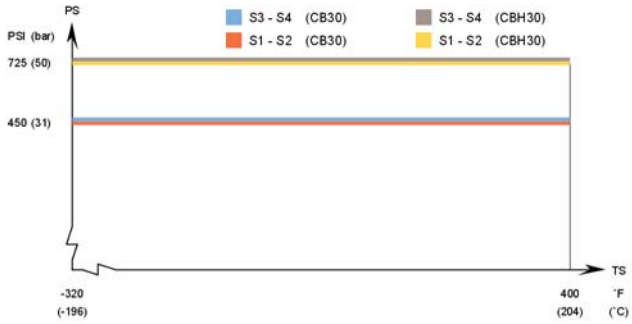


Design pressure and temperature

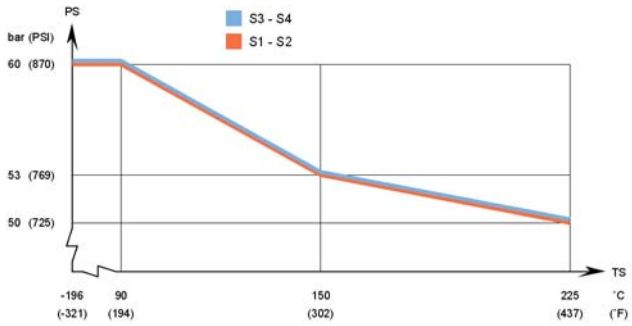
CB30 – PED approval pressure/temperature graph



CB30 – UL approval pressure/temperature graph



CBP30 – PED approval pressure/temperature graph



Designed for full vacuum.

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Marine Approvals

CBM30 can be delivered with marine classification certificate (ABS, BV, CCS, ClassNK, DNV, GL, LR, RINA, RMRS)

How to contact Alfa Laval

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Alfa Laval CB60 / CBH60 / CBP60

Brazed plate heat exchanger

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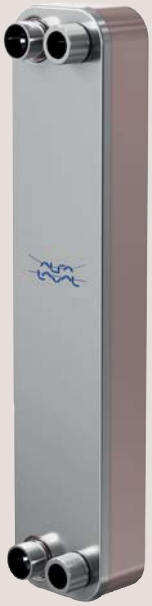

Applications
- HVAC heating and cooling
- Refrigeration
- Oil cooling
- Industrial heating and cooling

Benefits
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

Design
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

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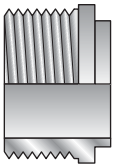
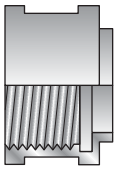
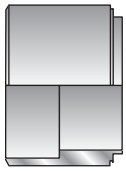
The unit can be supplied with a refrigerant distribution system for optimal evaporator performance.

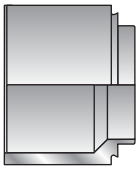
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

Examples of connections


External thread


Internal thread


Soldering


Welding

Technical Data

Standard materials

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

Dimensions and weight[1]

A measure (mm)	CB, CBH: 13 + (2.32 * n) [2] CBP: 17 + (2.32 * n)[3]
A measure (inches)	CB, CBH: 0.51 + (0.09 * n) [3] CBP:0.67 + (0.09 * n) [3]
Weight (kg)[4]	CB, CBH:2.1 + (0.18 * n) CBP:2.26 + (0.18 * n)
Weight (lb)[4]	CB, CBH: 4.63 + (0.4 * n) CBP: 4.98 + (0.4 * n)

1. n = number of plates
2. Excluding reinforcements
3. Excluding reinforcements
4. Excluding connections

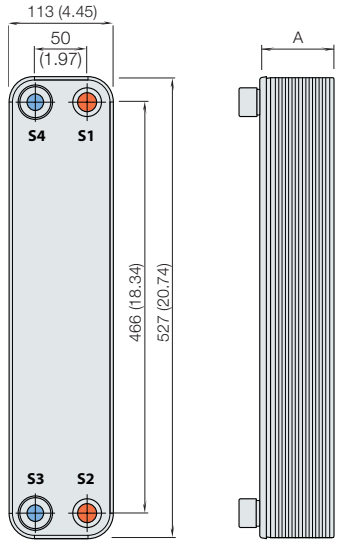
Standard data

Volume per channel, litres (gal)	0.103 (0.027)
Max. particle size, mm (inch)	1 (0.039)
Max. flowrate[1] m^3/h (gpm)	14 (62)
Flow direction	Parallel
Min. number of plates	4
Max. number of plates	150

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

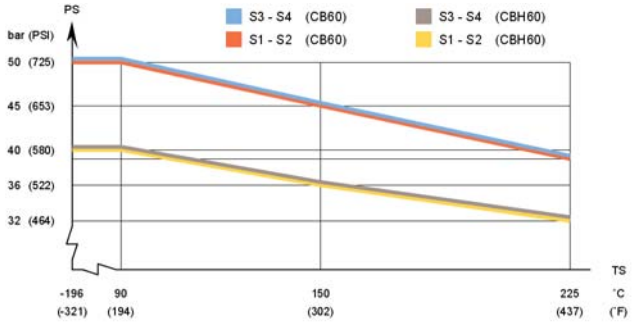
Dimensional drawing

Measurements in mm (inches)

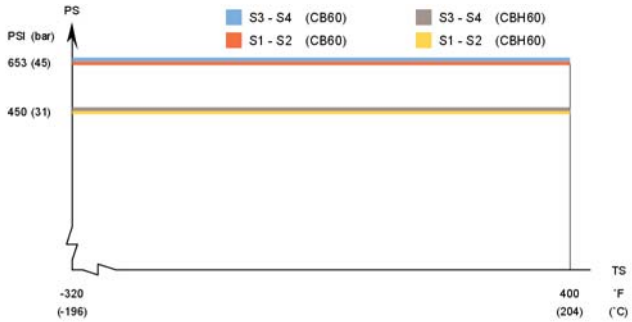


Design pressure and temperature

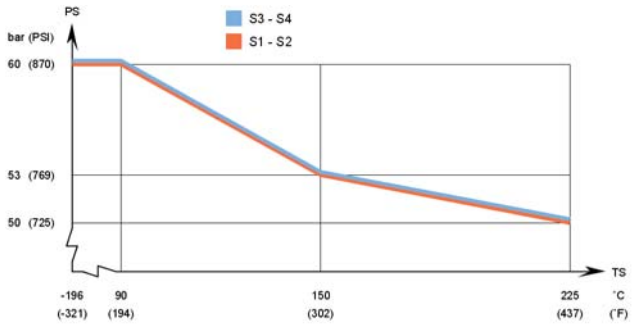
CB60/CBH60 – PED approval pressure/temperature graph



CB60/CBH60 – UL approval pressure/temperature graph



CBP60 – PED approval pressure/temperature graph



Designed for full vacuum.

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Alfa Laval CB110 / CBH110 / CBP110

Brazed plate heat exchanger

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Applications
- HVAC heating and cooling
- Refrigeration
- Oil cooling
- Industrial heating and cooling

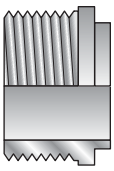
Benefits
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

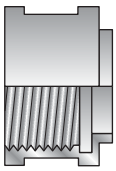
Design
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

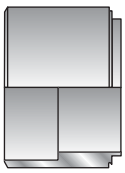
Different pressure ratings are available for different needs.

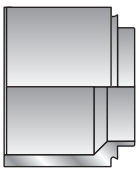
Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

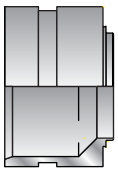
Examples of connections


External thread


Internal thread


Soldering


Welding


Grooved connection

Technical Data

Standard materials

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

Dimensions and weight[1]

A measure (mm)	15 + (2.56 * n)
A measure (inches)	0.59 + (0.1 * n)
Weight (kg)[2]	4.82 + (0.35 * n)
Weight (lb)[2]	10.63 + (0.77 * n)

1. n = number of plates
2. Excluding connections

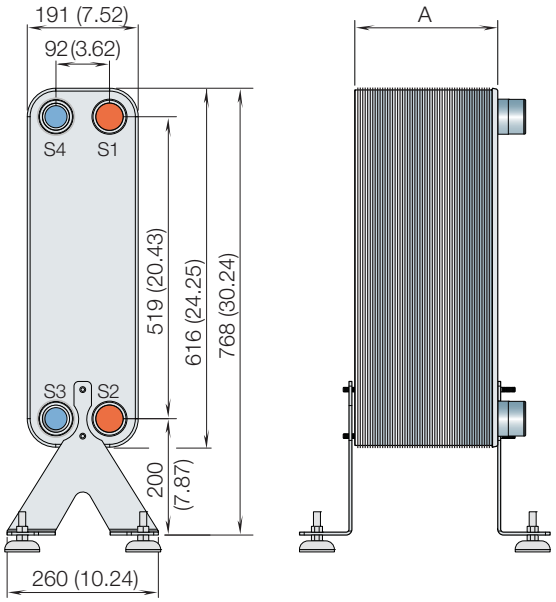
Standard data

Volume per channel, litres (gal)	0.21 (0.054)
Max. particle size, mm (inch)	1.2 (0.047)
Max. flowrate[1] m^3/h (gpm)	51 (224)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	240

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

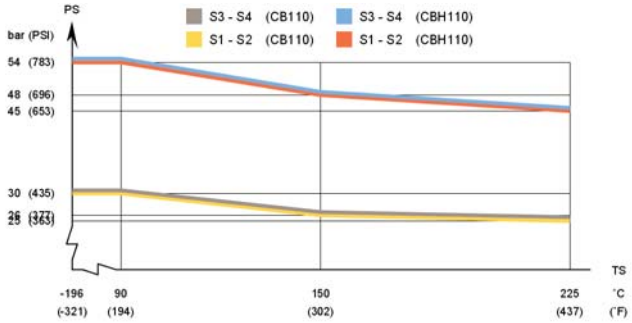
Dimensional drawing

Measurements in mm (inches)

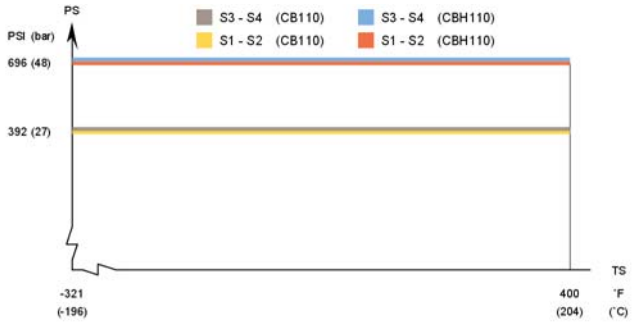


Design pressure and temperature

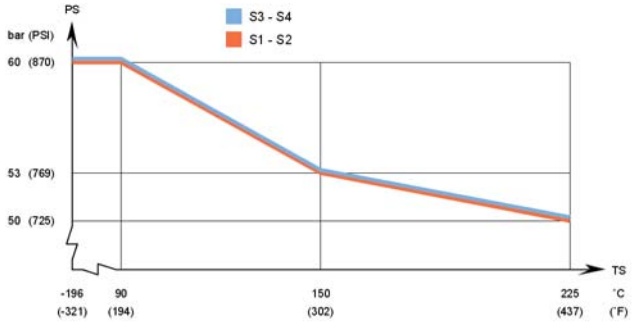
CB110/CBH110 – PED approval pressure/temperature graph



CB110/CBH110– UL approval pressure/temperature graph



CBP110 – PED approval pressure/temperature graph



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Marine Approvals

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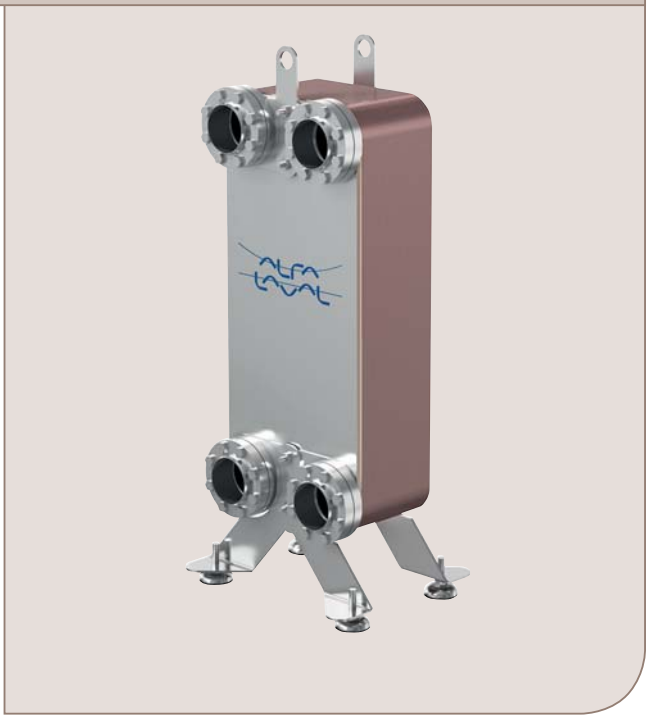
Alfa Laval CB200 / CBH200

Brazed plate heat exchanger



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Applications
- HVAC heating and cooling
- Refrigeration
- Oil cooling
- Industrial heating and cooling

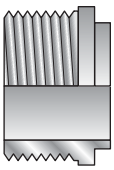
Benefits
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

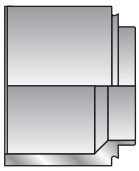
Design
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

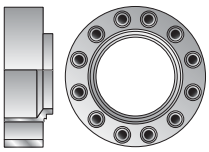
Different pressure ratings are available for different needs.

Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

Examples of connections


External thread


Welding


Compact flange

Technical Data

Standard materials

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

Dimensions and weight[1]

A measure (mm)	11 + (2.7 * n)
A measure (inches)	0.43 + (0.11 * n)
Weight (kg)[2]	12 + (0.6 * n)
Weight (lb)[2]	26.46 + (1.32 * n)

1. n = number of plates
2. Excluding connections

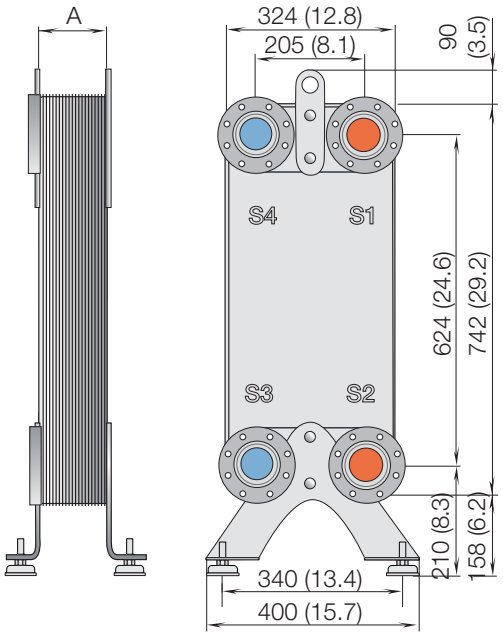
Standard data

Volume per channel, litres (gal)	0.51 (0.132)
Max. particle size, mm (inch)	1.8 (0.071)
Max. flowrate[1] m^3/h (gpm)	128 (563)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	230

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

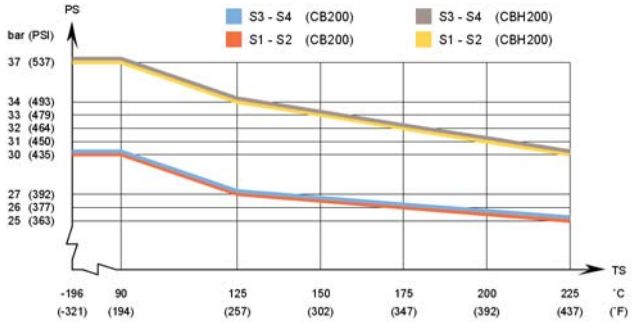
Dimensional drawing

Measurements in mm (inches)



Design pressure and temperature

CB200/CBH200 – PED approval pressure/temperature graph



Designed for full vacuum.

Alfa Laval plate heat exchangers are available with a wide range of pressure vessel approvals. Please contact your Alfa Laval representative for more information.

NOTE: Values above are to be used as an indication. For exact values, please use the drawing generated by the Alfa Laval configurator or contact your local Alfa Laval representative.

Marine Approvals

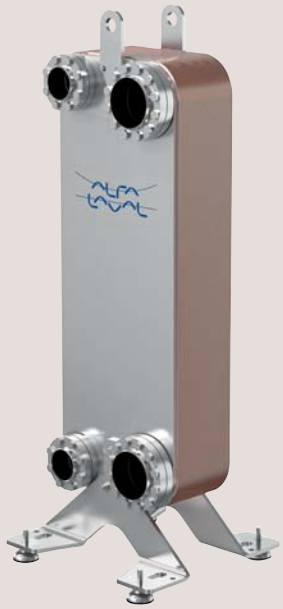
CBMH200 can be delivered with marine classification certificate (ABS, BV, CCS, ClassNK, DNV, GL, LR, RINA, RMRS)

How to contact Alfa Laval

Contact details for all countries are continually updated on our website. Please visit www.alfalaval.com to access the information direct.

Alfa Laval CB300 / CBH300

Brazed plate heat exchanger



Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Applications
- HVAC heating and cooling
- Refrigeration
- Oil cooling
- Industrial heating and cooling

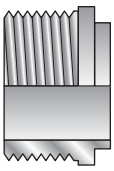
Benefits
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

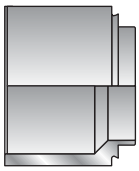
Design
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

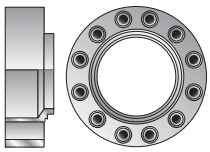
Different pressure ratings are available for different needs.

Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

Examples of connections


External thread


Welding


Compact flange

Technical Data

Standard materials

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

Dimensions and weight[1]

A measure (mm)	11 + (2.62 * n)
A measure (inches)	0.43 + (0.1 * n)
Weight (kg)[2]	21 + (1.26 * n)
Weight (lb)[2]	46.3 + (2.78 * n)

1. n = number of plates
2. Excluding connections

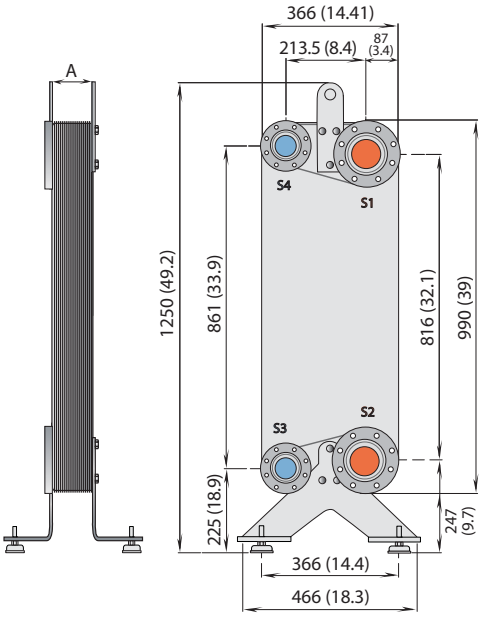
Standard data

Volume per channel, litres (gal)	(S1-S2): 0.69 (0.178) (S3-S4): 0.58 (0.150)
Max. particle size, mm (inch)	1.8 (0.071)
Max. flowrate[1] m^3/h (gpm)	200 (880)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	250

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

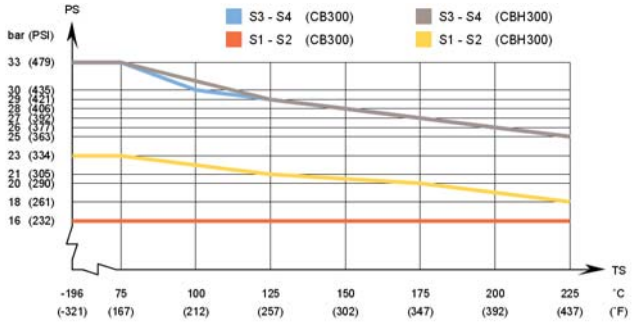
Dimensional drawing

Measurements in mm (inches)

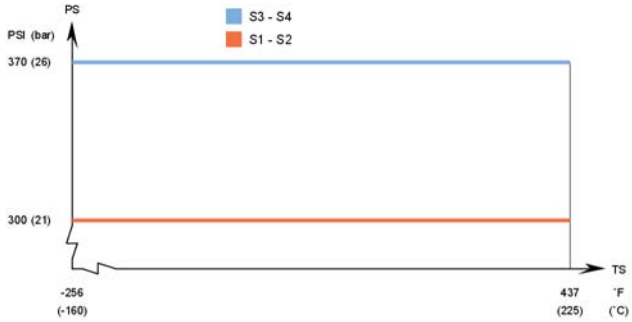


Design pressure and temperature

CB300/CBH300 – PED approval pressure/temperature graph



CB300/CBH300 – UL approval pressure/temperature graph



Designed for full vacuum.

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How to contact Alfa Laval
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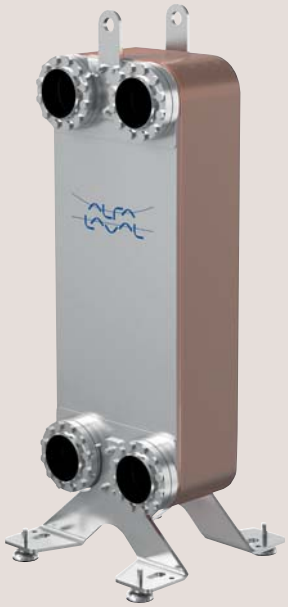
Alfa Laval CB400

Brazed plate heat exchanger

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.



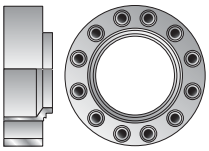
Applications
- HVAC heating and cooling
- Refrigeration
- Oil cooling
- Industrial heating and cooling

Benefits
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

Design
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

Examples of connections



Compact flange

Welding

Clamp

Technical Data

Standard materials

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

Dimensions and weight[1]

A measure (mm)	14 + (2.56 * n)
A measure (inches)	0.55 + (0.1 * n)
Weight (kg)[2]	24 + (1.35 * n)
Weight (lb)[2]	52.91 + (2.98 * n)

1. n = number of plates
2. Excluding connections

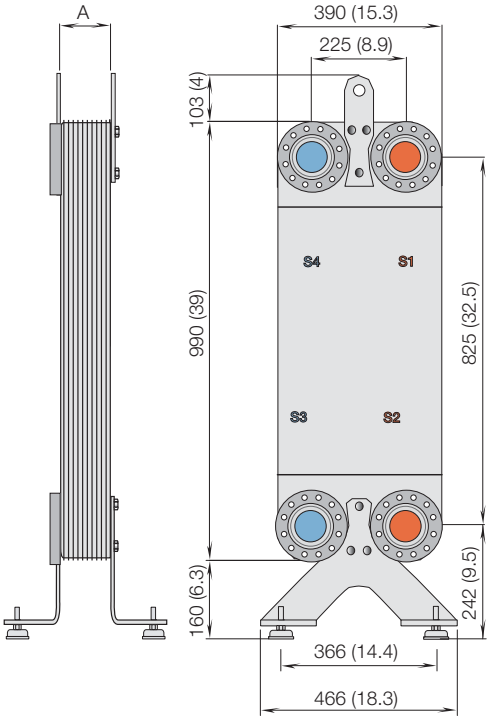
Standard data

Volume per channel, litres (gal)	0.74 (0.19)
Max. particle size, mm (inch)	1.8 (0.071)
Max. flowrate[1] m^3/h (gpm)	200 (880)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	270

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

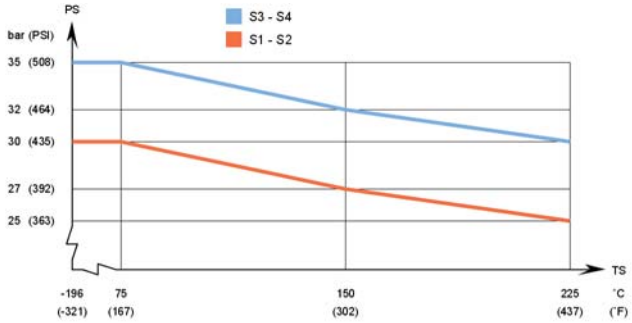
Dimensional drawing

Measurements in mm (inches)

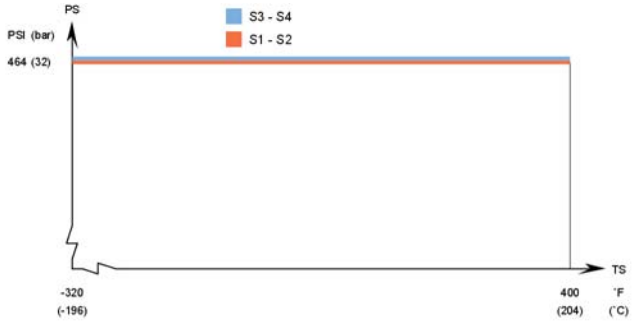


Design pressure and temperature

CB400 – PED approval pressure/temperature graph



CB400 – UL approval pressure/temperature graph



Designed for full vacuum.

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Marine Approvals

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