Brazed Heat Exchangers

Efficient Heat Transfer

SonFlow Brazed Heat Exchangers

SonFlow's efficient brazed heat exchangers (SFB), are permanently sealed heat exchangers suitable for a wide variety of applications across numerous market segments.

For the brazed heat exchanger series, the key focus lies in reliability and high performance. Our talented team, with more than 45 years of experience in heat exchangers, has developed and thoroughly tested the efficient brazed heat exchangers, handling advanced heat transfer technology.

SonFlow is a new brand built upon expertise since 1984.

Brazed Heat Exchanger Benefits:

- Lower operating and life cycle costs
- High thermal transfer efficiency
- Increased energy savings
- Lightweight and easy to handle
- Robust, solid construction
- Extremely small footprint
- Minimal service and maintenance
- Solid construction

Industries

The brazed heat exchangers are suitable for various heating and cooling processes, including:

- District cooling/heating
- HVAC
- Refrigeration
- Industrial processing
- Marine systems
- Data centres
- Heat pumps
- Solar heating
- Oil cooling

Advantages of SonFlow Brazed Heat Exchangers

High Configuration Flexibility

Easy and Quick Installation

Compact Size

Less Fouling
A smooth plate surface minimizes fouling

Copper Brazed Construction
Gasket free

Lower Costs

Close Approach Temperature
Possible to achieve close approach temperatures

Maintenance and Service Friendly

Construction

SonFlow customize each heat exchanger to meet your exact requirements

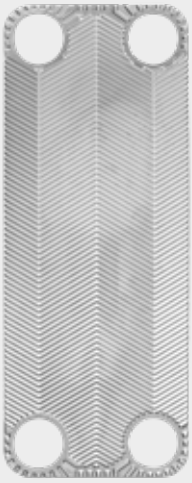
The Brazed heat exchanger is constructed by a package of thin corrugated metal plates, surrounded by two thicker stabilizing plates. A thin copper foil, placed between each of the thin metal plates, melts and seals the brazed plate heat exchanger during a vacuum brazing process.

We calculate each solution based on the customer's requirements to ensure an ideal pressure drop and flow rate. Simultaneously, the unit becomes more energy-efficient and environmentally friendly. Based on the individual task, we also determine the number of plates and the size of the brazed heat exchangers.

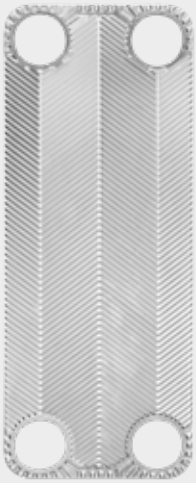
Plates

The design of the corrugated plates optimizes heat transfer by providing a large yet compact surface area, facilitating the transfer of heat from one liquid or gas to another. The plates are optimised to meet specific temperature demands and capacities.

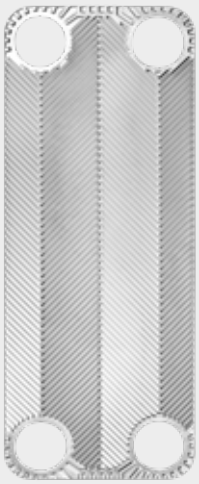
The herringbone plate pattern creates high turbulence, improving heat transfer while minimizing fouling and pressure drop.



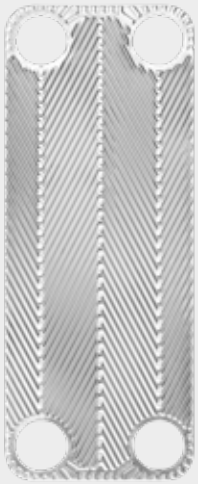
TXL – Thermal Extra Long
Very long thermal path providing maximum heat transfer efficiency in compact brazed designs.



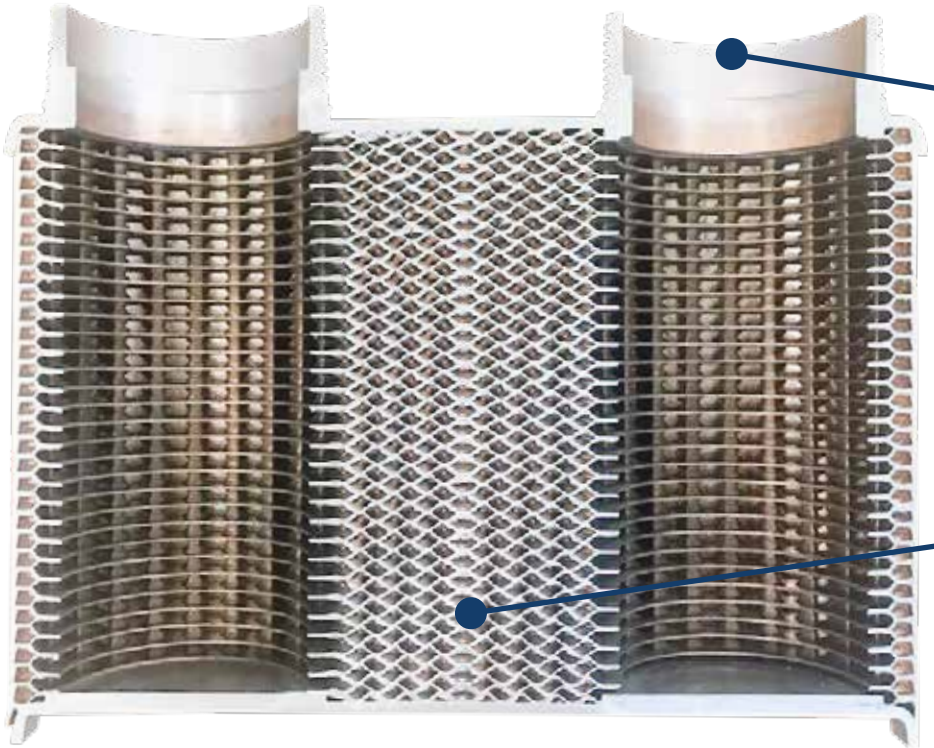
TL – Thermal Long
Extended flow path that increases turbulence and maximises heat transfer for demanding thermal duties.



TM – Thermal Mix
Combined plate geometries offering balanced performance between pressure drop and thermal efficiency.



TK – Thermal Short
Low pressure drop design for high flow rates and duties with small temperature differences.



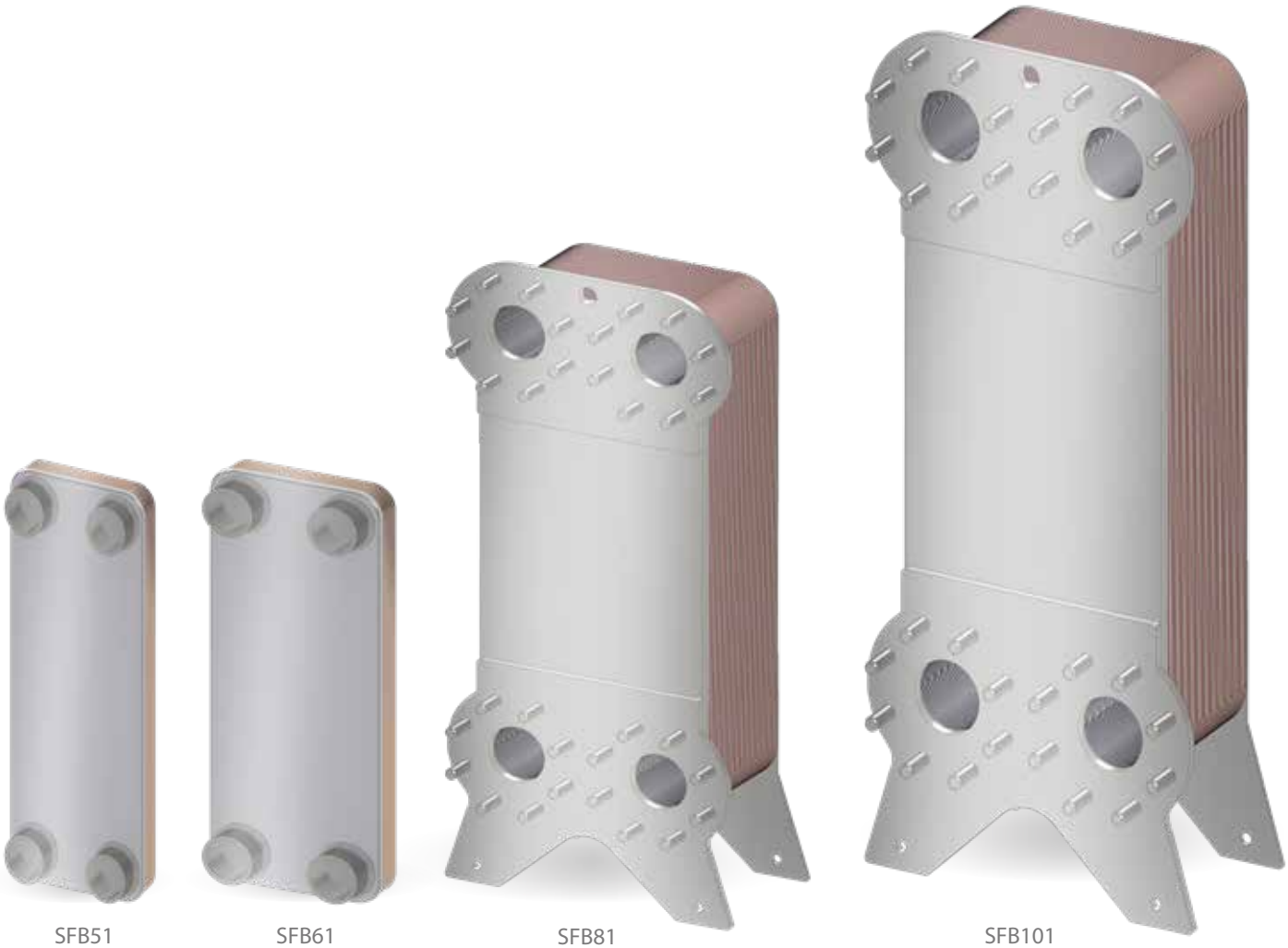
At the inlet, the medium enters the heat exchanger and is evenly distributed across the plates, ensuring optimal flow and heat transfer efficiency.

The two media flow in separate channels, divided by the plates. This ensures efficient heat transfer without any risk of mixing.

Productline

Our brazed heat exchangers are available in a wide range of sizes and configurations, making them suitable for diverse applications and system requirements.

SFB18 SFB19 SFB21 SFB22 SFB25 SFB31 SFB32



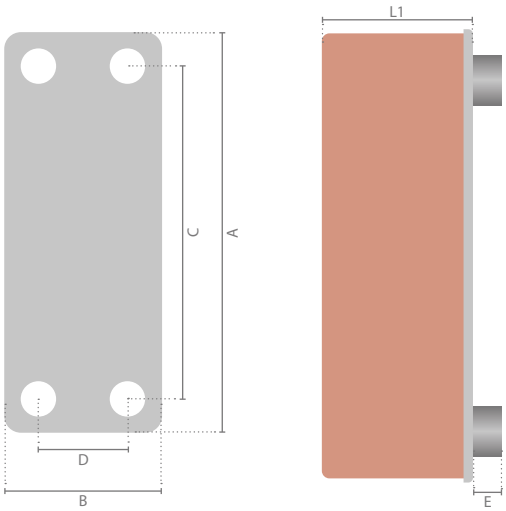
SFB51 SFB61 SFB81 SFB101

Dimensions

	A	B	C	D	E	L1	Max N
SFB18 TL	320 mm	95 mm	270 mm	45 mm	28 mm	(N x 1.3) + 8 mm	101
SFB18 TXL	320 mm	95 mm	270 mm	45 mm	28 mm	(N x 1.3) + 8 mm	101
SFB19 TK	329 mm	93 mm	279 mm	43 mm	28 mm	(N x 2.3) + 8 mm	101
SFB21 TL	291 mm	114 mm	242 mm	65 mm	28 mm	(N x 1.9) + 9 mm	101
SFB22 TL	495 mm	114 mm	446 mm	65 mm	28 mm	(N x 1.9) + 9 mm	101
SFB25 TL	526 mm	119 mm	479 mm	72 mm	28 mm	(N x 2.3) + 8 mm	101
SFB25 TM	526 mm	119 mm	479 mm	72 mm	28 mm	(N x 2.3) + 8 mm	101
SFB25 TK	526 mm	119 mm	479 mm	72 mm	28 mm	(N x 2.3) + 8 mm	101
SFB31 TL	305 mm	128 mm	242 mm	65 mm	28 mm	(N x 2.1) + 9 mm	101
SFB32 TL	509 mm	128 mm	446 mm	65 mm	28 mm	(N x 2.1) + 9 mm	151
SFB32 TM	509 mm	128 mm	446 mm	65 mm	28 mm	(N x 2.1) + 9 mm	151
SFB32 TK	509 mm	128 mm	446 mm	65 mm	28 mm	(N x 2.1) + 9 mm	151
SFB51 TL	618 mm	191 mm	519 mm	92 mm	30 mm	(N x 2.3) + 11 mm	201
SFB51 TM	618 mm	191 mm	519 mm	92 mm	30 mm	(N x 2.3) + 11 mm	201
SFB51 TK	618 mm	191 mm	519 mm	92 mm	30 mm	(N x 2.3) + 11 mm	201
SFB61 TL	617 mm	247 mm	520 mm	150 mm	40 mm	(N x 2.5) + 9.5 mm	201
SFB61 TXL	617 mm	247 mm	520 mm	150 mm	40 mm	(N x 2.5) + 9.5 mm	201
SFB61 TM	617 mm	247 mm	520 mm	150 mm	40 mm	(N x 2.5) + 9.5 mm	201
SFB61 TK	617 mm	247 mm	520 mm	150 mm	40 mm	(N x 2.5) + 9.5 mm	201
SFB81 TL	748 mm	330 mm	623 mm	205 mm		(N x 2.4) + 12 mm	271
SFB81 TM	748 mm	330 mm	623 mm	205 mm		(N x 2.4) + 12 mm	271
SFB81 TK	748 mm	330 mm	623 mm	205 mm		(N x 2.4) + 12 mm	271
SFB101 TL	1004 mm	381 mm	862 mm	239 mm		(N x 2.4) + 10 mm	271
SFB101 TM	1004 mm	381 mm	862 mm	239 mm		(N x 2.4) + 10 mm	271
SFB101 TK	1004 mm	381 mm	862 mm	239 mm		(N x 2.4) + 10 mm	271

Measurements are in mm

N = Number of plates



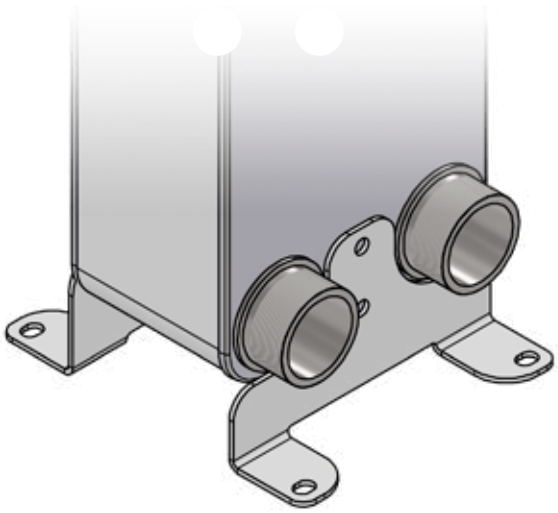
Cleaning and Maintenance

SonFlow brazed plate heat exchangers are designed to be both efficient and easy to maintain. The stainless steel plates ensure a smooth, hygienic surface that is easy to clean.

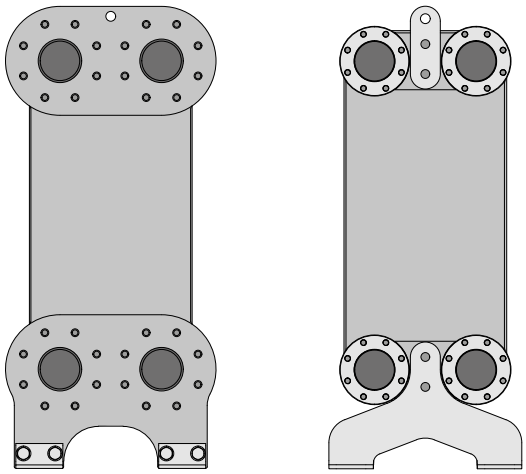
With full Cleaning in Place (CIP) support, the unit can be cleaned directly in the system without disassembly or relocation. This keeps downtime to a minimum while ensuring the heat exchanger remains free from contamination and ready for the next production cycle.

Foundation Feet

Foundation feet provide a secure and stable installation for the brazed plate heat exchanger. They ensure the unit is fixed in the correct position, protecting the connections from unnecessary stress during operation. The foundation feet increase both the safety and lifetime of the brazed heat exchanger.



Flange Connections



Our brazed plate heat exchangers SFB81 and SFB101 are supplied with robust flange connections for secure and reliable integration into your piping system.

Flanges provide a strong mechanical joint, making them ideal for applications with higher pressures, larger pipe diameters, or systems that require frequent disassembly for maintenance.

Manufactured from high-quality, corrosion-resistant materials, the flanges ensure long service life and leak-free performance.

Insulation Jackets

SonFlow brazed plate heat exchangers can be delivered with insulation jackets to reduce energy consumption and prevent condensation and ice formation.

Thermal insulation jackets reduce energy waste by preventing excessive heat and cold loss. They also create a safer working environment by protecting against burns and scalds.

The insulation jackets are available in high-quality glass wool, polyurethane foam or EPDM rubber, and can be encased by aluminium or stainless steel plates for added durability.

The jackets are manufactured in sections joined together with spring locks, ensuring smooth installation and an effective assembly/disassembly process for easy maintenance.

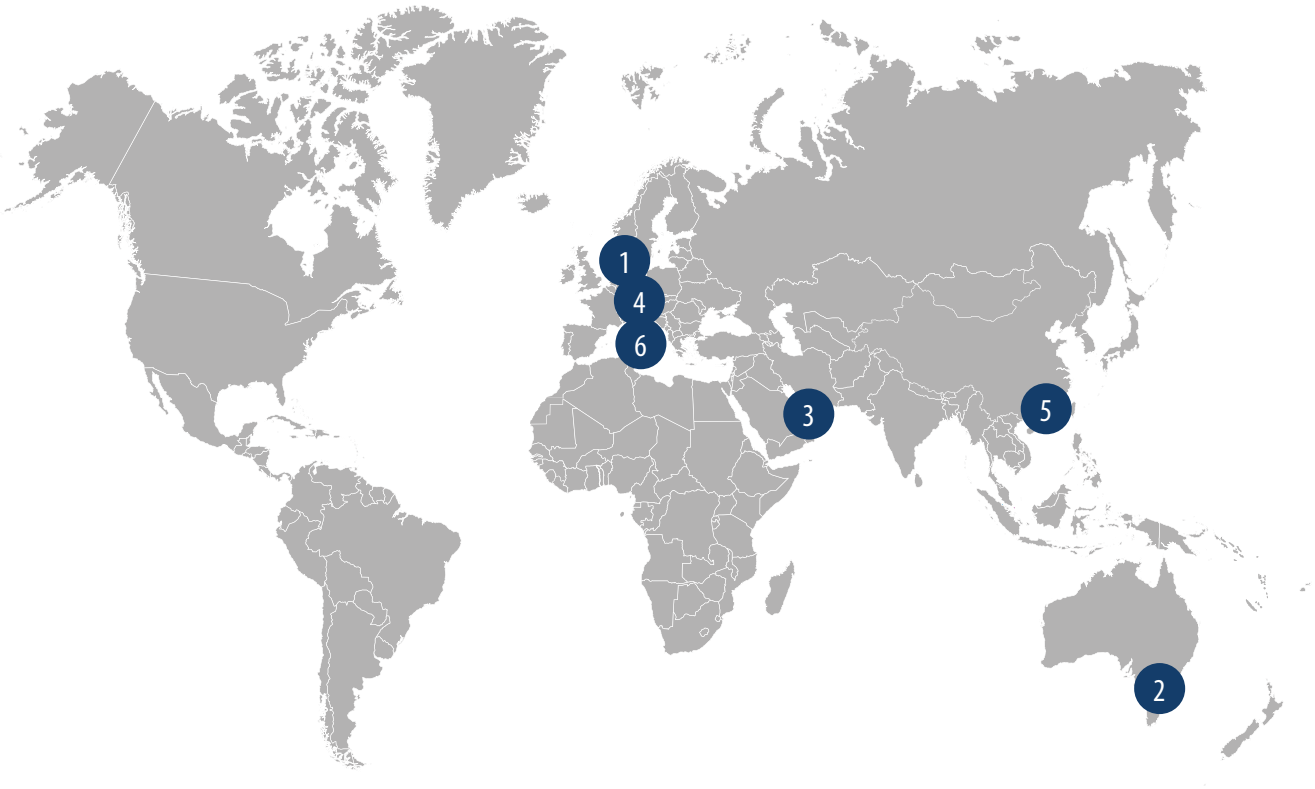
Specifications

	SFB18	SFB19	SFB21	SFB22	SFB25	SFB31	SFB32	SFB51	SFB61	SFB81	SFB101
MATERIALS											
Plate material: AISI 316	●	●	●	●	●	●	●	●	●	●	●
Brazing material: Copper	●	●	●	●	●	●	●	●	●	●	●
MAX DESIGN PRESSURE											
16 bar (232 PSI)								●	●	●	●
25 bar (362 PSI)	●	●	●	●	●	●	●	●	●	●	●
40 bar (580 PSI)						●	●	●	●		
TEMPERATURE											
-100 to 185˚C (-148 to 365˚F)	●	●	●	●	●	●	●	●	●	●	●
CONSTRUCTION STANDARDS											
EN13445 (PED 2014/68/EU)	●	●	●	●	●	●	●	●	●	●	●
ASME Section VIII, Div. 1	●	●	●	●	●	●	●	●	●	●	●
CONNECTIONS											
¾" inside pipe thread ISO 7-R	●	●	●	●	●						
¾" outside pipe thread ISO 7-R	●	●				●	●				
1" Pipe Thread ISO 7-R	●	●	●	●	●	●	●				
1 ¼" Pipe Thread ISO 7-R						●	●				
1 ½" Pipe Thread ISO 7-R						●	●				
2" Pipe Thread ISO 7-R								●	●		
2 ½" Pipe Thread ISO 7-R									●		
Ø 22.3 - M34 x1.5						●	●				
Ø 28.2 - M34 x1.5						●	●				
Ø 42.2								●			
Ø 54.2 - ISO 7-R 1 ½"									●		
Ø 70.2 - ISO 7-R 3"									●		
DN 80 Flange SS PN16										●	
DN 80 Flange SS PN25										●	
DN 100 Flange SS PN16											●
DN 100 Flange SS PN25											●
3" Flange SS ANSI B16.5 #300										●	
3" Flange SS ANSI B16.5 #150										●	
4" Flange SS ANSI B16.5 #150											●
4" Flange SS ANSI B16.5 #300											●
NPT threads upon request	●	●	●	●	●	●	●	●	●		
ACCESSORIES											
Insulation jackets	●	●	●	●	●	●	●	●	●	●	●
Foundation feet	●	●	●	●	●	●	●	●	●	●	●
Mounting brackets	●	●	●	●	●	●	●	●			

Production Facilities

At SonFlow, we aim to deliver energy-efficient and environmentally friendly solutions. Our engineering team continuously develops new designs and optimized processes to ensure that our brazed plate heat exchangers meet the highest standards of safety, quality and performance.

Produced in our modern facilities in Kolding, Denmark, every unit undergoes advanced testing and strict quality control. As an ISO 9001:2015-certified company, we guarantee that each brazed plate heat exchanger provides reliable, long-lasting operation across a wide range of applications.



1 **SonFlow A/S** Headqarter

Nordager 25 | 6000 Kolding
Denmark

+45 8657 1344
info@sonflow.dk
www.sonflow.dk

3 **SonFlow FZCO** Middle East

Jafza South - BJ 01 | Dubai
UAE

+97 150-1635086
reny@sonflowmea.com
www.sonflow.eu

5 **SonFlow Co., Ltd.** China

NO.9 Tonghe Road | Ningbo
China

+86 1995 182 4207
tengfei.wan@sonflow.com.cn
www.sonflow.cn

2 **SonFlow Pty Ltd** Australia

9/1-3 Eastspur Court | Kilsyth South
Australia

+61 (3) 97 54 28 52
janita@sonflow.com.au
www.sonflow.com.au

4 **SonFlow GmbH** Germany

Söllerstraße 12 | 21481 Lauenburg
Germany

+49 (0)162 4792528
ms@sonflow.de
www.sonflow.de

6 **SonFlow Italy S.r.l.** Italy

Via Firenze 440 | 48018 Faenza
Italy

+39 339 44 19 565
mattaianese@sonflow.it
www.sonflow.eu

Aage Søndergaard Nielsen
Founder & CEO

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