



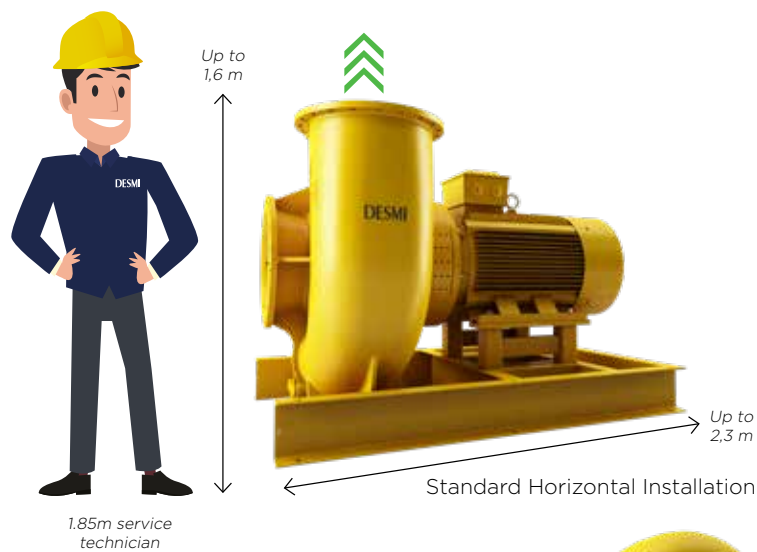
AquaCulture Pumps

Overview

AquaCulture

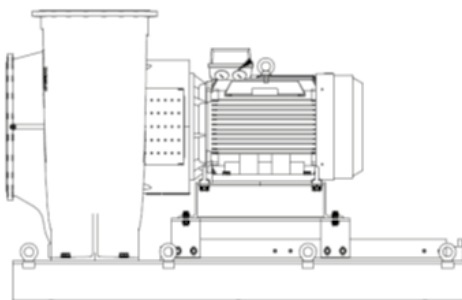
DESMI
Make life flow

High Flow - Low Pressure Pumps for Aquaculture

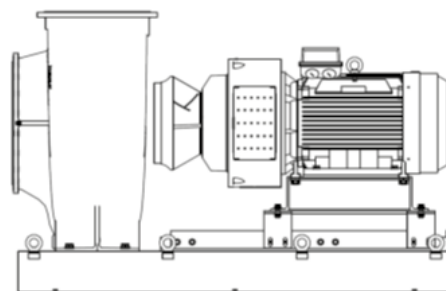


Horizontal Reverse Installation
(Where the media is pumped downwards)

Service friendly “Back Pull-out”



Normal Operation



Service mode

Design Flexibility

Pressure Gauges

- Valves with air blending and shutoff
- Glycerin filled gauges Ø63 or Ø100
- Possibility to add extra "T" for pressure transmitter

Motor

- DESMI Standard or any motor preference is possible
- PTE Thermistor, IP56, PT100 (windings/bearings) anti-condensation heaters, current insulated bearings, SPM Nipples, external ventilation, etc.

Optional customer colour selection with different corrosion specifications

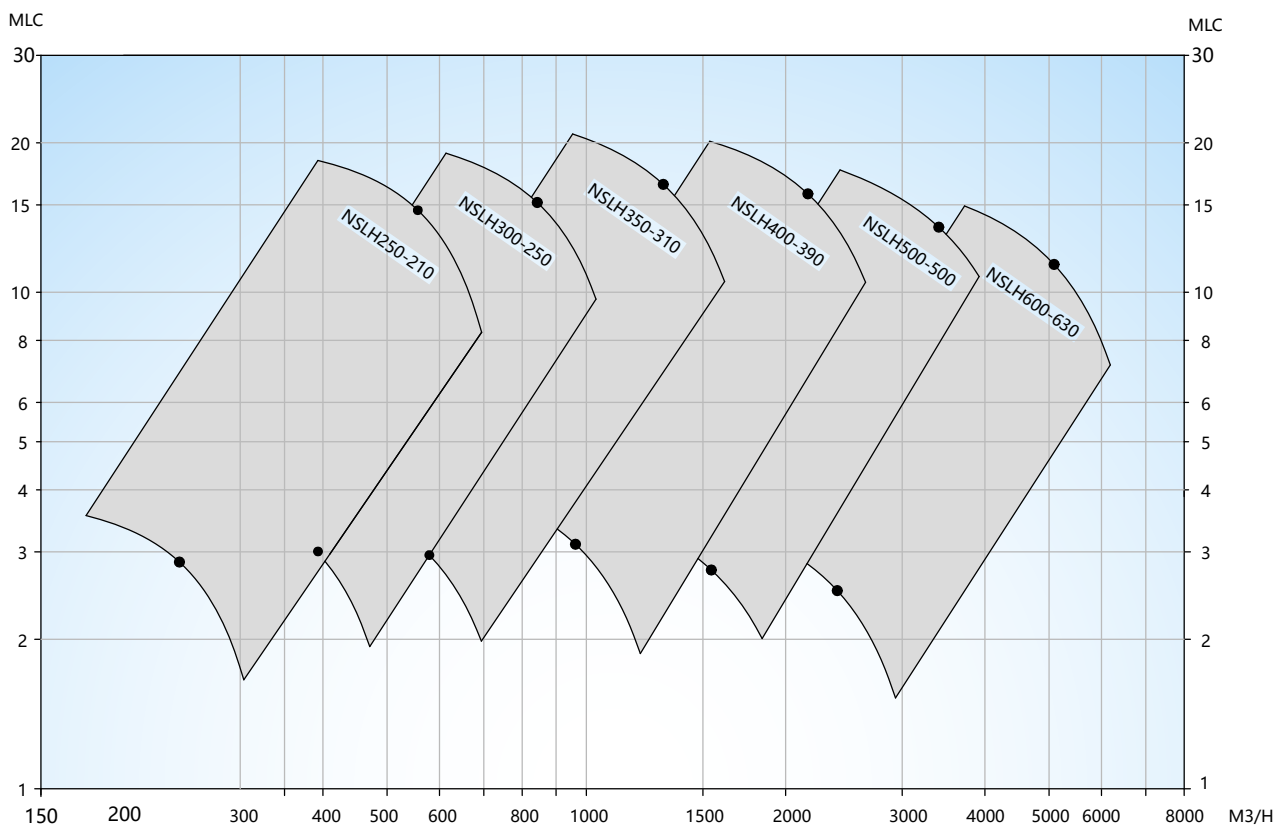
- Any colour is possible if the RAL-code is given
- C3-M, C4-M, C5-M, etc.



Plain Design



Valve Design



• MAX EFFICIENCY POINT*

*shown for min. and max. speed for each pump size



NSLH250-210/AO2

Suction DN300 Velocity m/s	0,69	0,79	0,88	0,98	1,08	1,18	1,28	1,38	1,47	1,57	1,67	1,77	1,87	1,96
Discharge DN250 Velocity m/s	0,99	1,13	1,27	1,41	1,56	1,70	1,84	1,98	2,12	2,26	2,41	2,55	2,69	2,83
H mWC														
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Q m³/h	175	200	225	250	275	300	325	350	375	400	425	450	475	500
Q l/s	49	56	63	69	76	83	90	97	104	111	118	125	132	139

							Optional Extras					
Nom. Effect	Nom. Motor Speed	Nom. Current	Approx weight	Fresh-water	Salt-water <16°C	Salt water 16-35°C	Option Vertical execution	Option H180°	Option pull-back	Option C5-M paint if required for fresh-water	NiAlBz Impeller instead of 1.4410	Option IOT Cloud based monitoring
[kW]	[RPM]	[A]	[KG]	*1	*2	*3	Add [€]	Add [€]	Add [€]	Add €	Deduct [€]	[€]
3	960	6,8	461			Ask DESMI						
4	960	9,0	470			Ask DESMI						
5,5	960	10,6	469			Ask DESMI						
7,5	1450	14,3	478			Ask DESMI						
11	1450	20,4	535			Ask DESMI						
15	1450	27,3	561			Ask DESMI						
18,5	1450	33,53	597			Ask DESMI						

End-Suction with bearing incl. Baseframe, Super Duplex Impeller, pressure gauges incl. Valve & T-Piece for customer added pressure transmitter. Standard DESMI IE3 Motor for 3 x 400 V / 50 Hz.

Spare Parts Kits are also available. Please contact DESMI on desmi@desmi.com or +45 9632 8111

***1** Fresh water execution - Casing GG20 Cast Iron, Shaft/impeller in super duplex

***2** Salt water execution - Casing = Ceramic coated (Belzona) grey cast iron, Shaft/impeller in super duplex, C5-M

***3** High temperature salt water execution as (*2) plus high temperature coating process, C5-M

***4** Pull back option only available for horizontal execution



NSLH300-250/A02

Suction DN350 Velocity m/s	0,79	0,87	0,94	1,01	1,08	1,15	1,23	1,30	1,37	1,44	1,52	1,59	1,66	1,73	1,80	1,88	1,95
Discharge DN300 Velocity m/s	1,08	1,18	1,28	1,38	1,47	1,57	1,67	1,77	1,87	1,96	2,06	2,16	2,26	2,36	2,46	2,55	2,65
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Q m³/h	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675
Q l/s	76	83	90	97	104	111	118	125	132	139	146	153	160	167	174	181	188

Nom. Effect	Nom. Motor Speed	Nom. Current	Approx weight	Fresh- water	Salt- water <16°C	Salt water 16-35°C	Optional Extras					
							Option Vertical execution	Option H180°	Option pull-back	Option C5-M paint if required for fresh- water	NiAlBz Impeller instead of 1.4410	Option IOT Cloud based monitoring
[kW]	[RPM]	[A]	[KG]	*1 [€]	*2 [€]	*3 [€]	Add [€]	Add [€]	Add [€]	Add €	Deduct [€]	[€]
4	720	9,33	526	Ask DESMI			Ask DESMI					
7,5	960	15,38	536	Ask DESMI			Ask DESMI					
11	960	21,99	562	Ask DESMI			Ask DESMI					
15	1450	27,34	572	Ask DESMI			Ask DESMI					
18,5	1450	35,95	662	Ask DESMI			Ask DESMI					
22	1450	42,52	682	Ask DESMI			Ask DESMI					
30	1450	56,00	736	Ask DESMI			Ask DESMI					

End-Suction with bearing incl. Baseframe, Super Duplex Impeller, pressure gauges incl. Valve & T-Piece for customer added pressure transmitter. Standard DESMI IE3 Motor for 3 x 400 V / 50 Hz.

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Shaft/impeller in super
duplex

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Casing = Ceramic coated
(Belzona) grey cast iron,
Shaft/impeller in super
duplex, C5-M

***3** High temperature salt
water execution as (*2)
plus high temperature
coating process, C5-M

***4** Pull back only
available for NSLH
& NSLH180°



NSLH350-310/AO2

Suction DN400 Velocity m/s	0,88	0,99	1,11	1,22	1,44	1,55	1,66	1,77	1,88	1,99	2,10	2,21	2,32	2,43	2,54
Discharge DN350 Velocity m/s	1,15	1,30	1,44	1,59	1,88	2,02	2,17	2,31	2,45	2,60	2,74	2,89	3,03	3,18	3,32
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2,5															
Q m³/h	400	450	500	550	650	700	750	800	850	900	950	1000	1050	1100	1150
Q l/s	111	125	139	153	181	194	208	222	236	250	264	278	292	306	319

Nom. Effect	Nom. Motor Speed	Nom. Current	Approx weight	Fresh- water	Salt- water <16°C	Salt water 16-35°C	Optional Extras					
							Option Vertical execution	Option H180°	Option pull-back	Option C5-M paint if required for fresh- water	NiAlBz Impeller instead of 1.4410	Option IOT Cloud based monitoring
[kW]	[RPM]	[A]	[KG]	*1 [€]	*2 [€]	*3 [€]	Add [€]	Add [€]	Add [€]	Add €	Deduct [€]	[€]
5,5	720	12,5	768		Ask DESMI					Ask DESMI		
7,5	720	16,5	790		Ask DESMI					Ask DESMI		
11	720	22,0	792		Ask DESMI					Ask DESMI		
15	960	29,3	839		Ask DESMI					Ask DESMI		
18,5	960	36,0	888		Ask DESMI					Ask DESMI		
22	960	42,5	908		Ask DESMI					Ask DESMI		
30	960	56,2	962		Ask DESMI					Ask DESMI		
37	960	68,6	1055		Ask DESMI					Ask DESMI		
45	1450	80,2	992		Ask DESMI					Ask DESMI		

End-Suction with bearing incl. Baseframe, Super Duplex Impeller, pressure gauges incl. Valve & T-Piece for customer added pressure transmitter.
Standard DESMI IE3 Motor for 3 x 400 V / 50 Hz.

Spare Parts Kits are also available. Please contact DESMI on desmi@desmi.com or +45 9632 8111

***1** Fresh water execution
- Casing GG20 Cast Iron,
Shaft/impeller in super
duplex

***2** Salt water execution -
Casing = Ceramic coated
(Belzona) grey cast iron,
Shaft/impeller in super
duplex, C5-M

***3** High temperature salt
water execution as (*2)
plus high temperature
coating process, C5-M

***4** Pull back only
available for NSLH
& NSLH180°

All prices should be considered budget prices for 2024 excl. VAT. Changes to the price, technical data might occur



NSLH400-390/A02

Suction DN500 Velocity m/s	0,92	0,99	1,06	1,13	1,20	1,27	1,34	1,41	1,49	1,56	1,63	1,70	1,77	1,84	1,91	1,98	2,05	2,12	2,19	2,26	2,41	2,48	2,55	2,62
Discharge DN400 Velocity m/s	1,44	1,55	1,66	1,77	1,88	1,99	2,10	2,21	2,32	2,43	2,54	2,65	2,76	2,87	2,98	3,09	3,21	3,32	3,43	3,54	3,76	3,87	3,98	4,09
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Q m³/h	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1700	1750	1800	1850
Q l/s	181	194	208	222	236	250	264	278	292	306	319	333	347	361	375	389	403	417	431	444	472	486	500	514

Nom. Effect	Nom. Motor Speed	Nom. Current	Approx weight	Fresh- water	Salt- water <16°C	Salt water 16-35°C	Optional Extras					
							Option Vertical execution	Option H180°	Option pull-back	Option C5-M paint if required for fresh- water	NiAlBz Impeller instead of 1.4410	Option IOT Cloud based monitoring
							Option Vertical execution	Option H180°	Option pull-back	Option C5-M paint if required for fresh- water	NiAlBz Impeller instead of 1.4410	Option IOT Cloud based monitoring
[kW]	[RPM]	[A]	[KG]	*1 [€]	*2 [€]	*3 [€]	Add [€]	Add [€]	*4 Add [€]	Add €	Deduct [€]	[€]
15	720	31,8	1171		Ask DESMI					Ask DESMI		
18,5	720	39,0	1220		Ask DESMI					Ask DESMI		
22	720	44,9	1242		Ask DESMI					Ask DESMI		
30	720	60,0	1319		Ask DESMI					Ask DESMI		
37	960	68,6	1332		Ask DESMI					Ask DESMI		
45*	960	81,6	1490		Ask DESMI					Ask DESMI		
55*	960	98,1	1560		Ask DESMI					Ask DESMI		
75**	960	136,2	1785		Ask DESMI					Ask DESMI		

* incl. Insulated bearing in NDE

** IE4 incl. Insulated bearing in NDE

End-Suction with bearing incl. Baseframe, Super Duplex Impeller, pressure gauges incl. Valve & T-Piece for customer added pressure transmitter.
Standard DESMI IE3 Motor for 3 x 400 V / 50 Hz.

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***1** Fresh water execution
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Shaft/impeller in super
duplex

***2** Salt water execution -
Casing = Ceramic coated
(Belzona) grey cast iron,
Shaft/impeller in super
duplex, C5-M

***3** High temperature salt
water execution as (*2)
plus high temperature
coating process, C5-M

***4** Pull back only
available for NSLH
& NSLH180°



NSLH500-500/A02

Suction DN600 Velocity m/s	0,98	1,08	1,18	1,28	1,38	1,47	1,57	1,67	1,77	1,87	1,96	2,06	2,16	2,26	2,36	2,46	2,55	2,65	2,75	2,85	2,95	3,05	3,14	3,24	3,34	3,44
Discharge DN500 Velocity m/s	1,41	1,56	1,70	1,84	1,98	2,12	2,26	2,41	2,55	2,69	2,83	2,97	3,11	3,25	3,40	3,54	3,68	3,82	3,96	4,10	4,24	4,39	4,53	4,67	4,81	4,95
H mWC																										
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2,5																										
Q m³/h	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500
Q l/s	278	306	333	361	389	417	444	472	500	528	556	583	611	639	667	694	722	750	778	806	833	861	889	917	944	972

							Optional Extras					
Nom. Effect	Nom. Motor Speed	Nom. Current	Approx weight	Fresh-water	Salt-water <16°C	Salt water 16-35°C	Option Vertical execution	Option H180°	Option pull-back	Option C5-M paint if required for fresh-water	NiAlBz Impeller instead of 1.4410	Option IOT Cloud based monitoring
[kW]	[RPM]	[A]	[KG]	*1	*2	*3			*4			
				[€]	[€]	[€]	Add [€]	Add [€]	Add [€]	Add €	Deduct [€]	[€]
37	720	73,64	1960			Ask DESMI						Ask DESMI
45*	720	89,18	2040			Ask DESMI						Ask DESMI
55*	720	105,96	2472			Ask DESMI						Ask DESMI
75*	720	143,56	2548			Ask DESMI						Ask DESMI
90*	720	169,62	2638			Ask DESMI						Ask DESMI
110*	720	206,65	2727			Ask DESMI						Ask DESMI
132*	720	247,19	3392			Ask DESMI						Ask DESMI

* Incl. Insulated bearing in NDE

End-Suction with bearing incl. Baseframe, Super Duplex Impeller, pressure gauges incl. Valve & T-Piece for customer added pressure transmitter. Standard DESMI IE3 Motor for 3 x 400 V / 50 Hz.

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***3** High temperature salt water execution as (*2) plus high temperature coating process, C5-M

***4** Pull back only available for NSLH & NSLH180°

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NSLH600-630/A02

Suction DN700 Velocity m/s	1,73	1,88	2,02	2,17	2,31	2,45	2,60	2,74	2,89	3,03	3,18	3,32	3,46	3,61	3,75	3,90	4,04	4,19
Discharge DN600 Velocity m/s	2,36	2,55	2,75	2,95	3,14	3,34	3,54	3,73	3,93	4,13	4,32	4,52	4,72	4,91	5,11	5,31	5,50	5,70
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Q m³/h	2400	2600	2800	3000	3200	3400	3600	3800	4000	4200	4400	4600	4800	5000	5200	5400	5600	5800
Q l/s	667	722	778	833	889	944	1000	1056	1111	1167	1222	1278	1333	1389	1444	1500	1556	1611

							Optional Extras					
Nom. Effect	Nom. Motor Speed	Nom. Current	Approx weight	Fresh-water	Salt-water <16°C	Salt water 16-35°C	Option Vertical execution	Option H180°	Option pull-back	Option C5-M paint if required for fresh-water	NiAlBz Impeller instead of 1.4410	Option IOT Cloud based monitoring
[kW]	[RPM]	[A]	[KG]	*1	*2	*3	Add [€]	Add [€]	*4 Add [€]	Add €	Deduct [€]	[€]
55*	720	106,0	2756		Ask DESMI					Ask DESMI		
75*	720	143,6	2832		Ask DESMI					Ask DESMI		
90*	720	169,6	2922		Ask DESMI					Ask DESMI		
110*	720	206,7	3011		Ask DESMI					Ask DESMI		
132*	720	247,2	4388		Ask DESMI					Ask DESMI		
160*	720	298,7	4478		Ask DESMI					Ask DESMI		
200*	720	367,7	4628		Ask DESMI					Ask DESMI		

* incl. Insulated bearing in NDE

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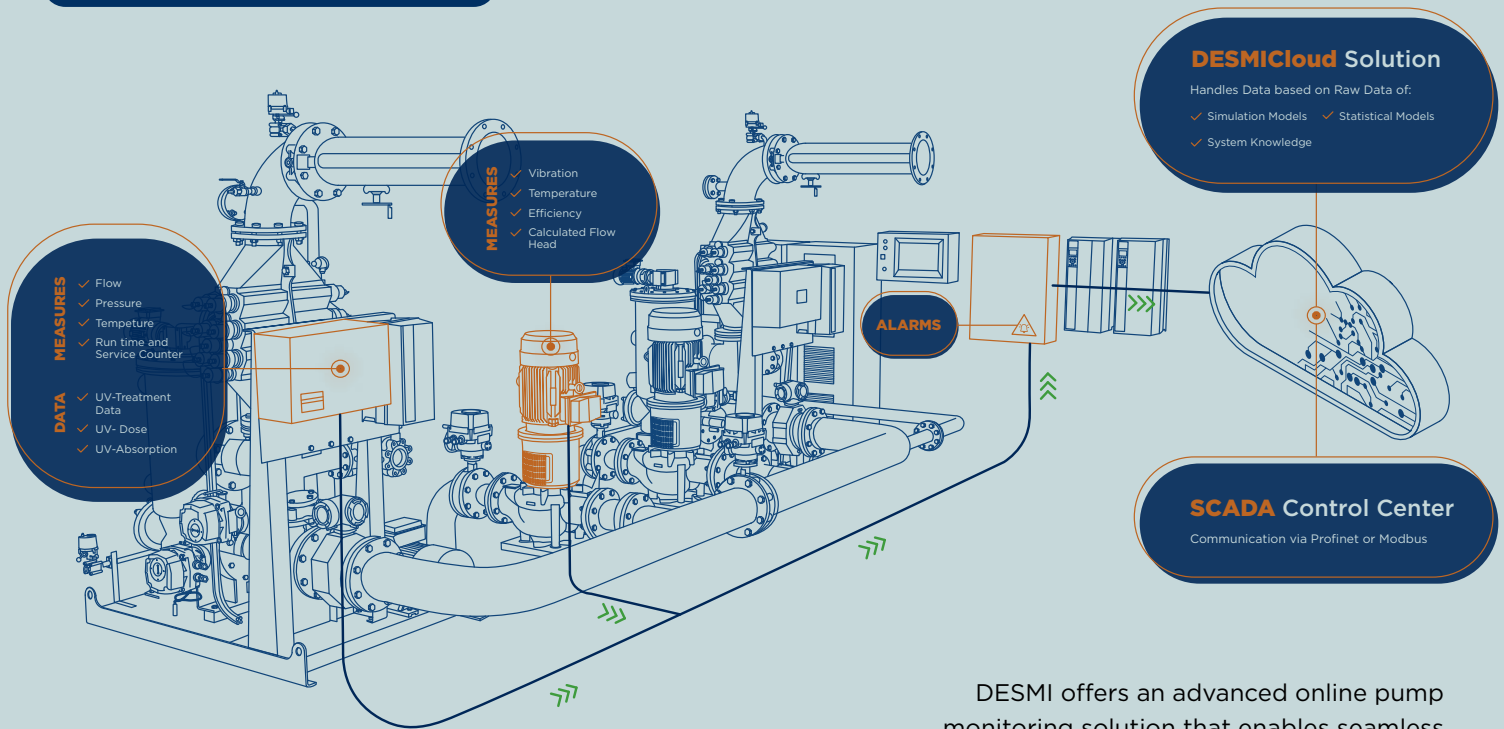
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Shaft/impeller in super duplex, C5-M

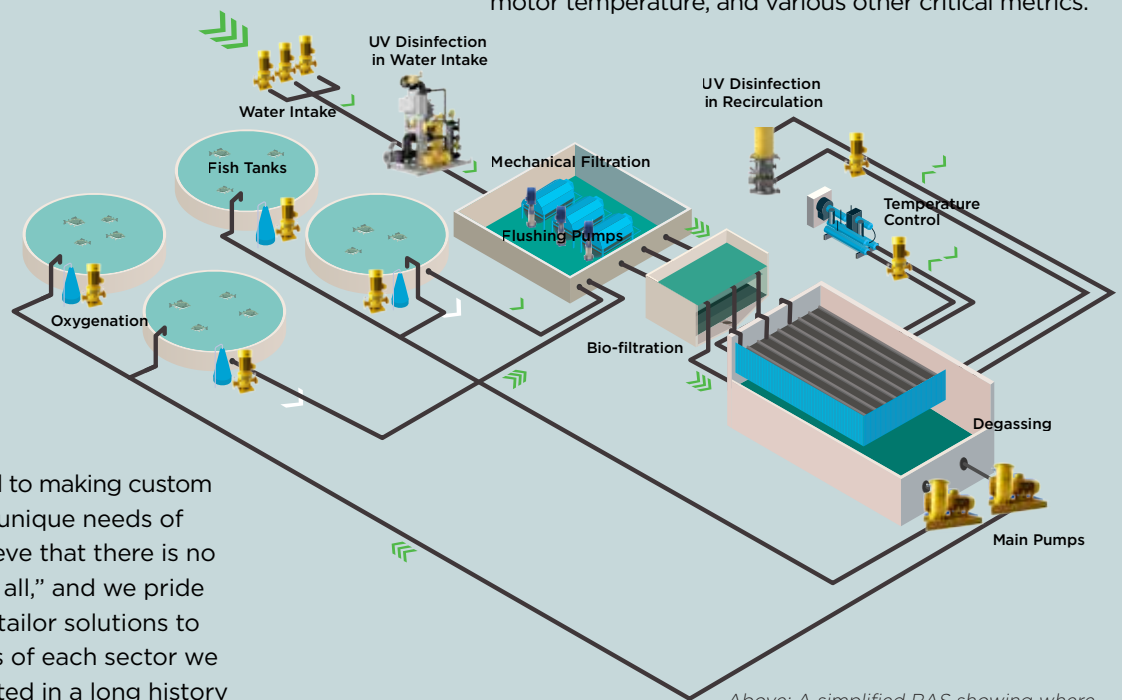
***3** High temperature salt
water execution as (*2)
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coating process, C5-M

***4** Pull back only
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& NSLH180°

Monitoring Pump Data



DESMI offers an advanced online pump monitoring solution that enables seamless surveillance of crucial sensor-based pump parameters. This includes monitoring pump pressure at both the inlet and discharge flanges, flow rate, vibration levels, media temperature, motor temperature, and various other critical metrics.



At DESMI, we are committed to making custom solutions that cater to the unique needs of various industries. We believe that there is no such thing as “one size fits all,” and we pride ourselves on our ability to tailor solutions to meet the specific demands of each sector we serve. Our approach is rooted in a long history of engineering excellence and a relentless pursuit of customer satisfaction.

Above: A simplified RAS showing where DESMI pumps and solutions can be used

Find more
solutions on
desmi.com

Call the
DESMI Service Hotline
round the clock
at +45 96 32 81 10

After-sales and service

from DESMI DeServe



Call us anytime and let us know what you need: Our global after-sales and service department DESMI DeServe offers parts and services that keep your aquaculture operation running.

Our spare part kits cover several pumps and contain the parts you need for overhauls, for example shaft seals, bearings, and O-rings. You can also order individual spare parts as needed, and for some parts or products, we ship within 48 hours.

Our highly experienced and factory trained service teams provide a long list of onsite services, from installation and commissioning to service, repair, upgrades, and maintenance, plus training and technical support – whatever it takes to optimize your critical flow processes.



Overhaul
Videos



We exist to keep your business flowing

DESMI works closely with aquaculture engineers, designers, and owners to keep critical production processes flowing reliably and efficiently on fish farms on land and at sea, anywhere on the planet. Our pumps, UV treatment systems, IoT offerings, and after-sales service are trusted worldwide for dependability and the lowest total cost of ownership.

At DESMI, our focus has never been on discovering what we can do – it's about pushing the boundaries of what we can do for you, no matter which type of facility and what species you work with. We help you ensure optimal production environments that keep fish stocks healthy and safe and keep your business profitable.

Founded in Denmark in 1834, we have provided the expertise, solutions, and aftermarket support our customers need for nearly two centuries. We help you operate more efficiently and reliably, enabling your ambitions for performance, food safety, and growth whilst helping you reduce your climate impact.

Together, we can make a difference, whatever the future holds. Because we, like you, are here to make life flow.

For more information, visit **desmi.com**

DESMI A/S

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