

Product range _____

Grease separators

 **KESSEL**

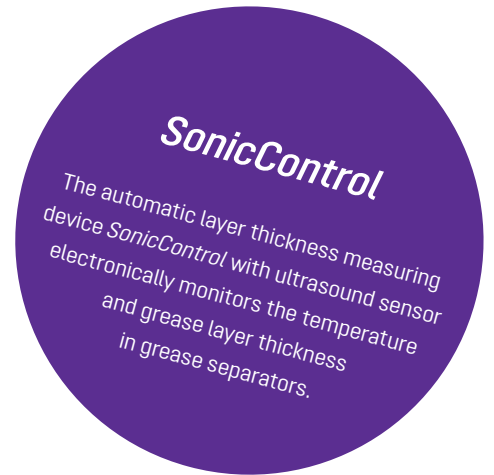
Easy. Clean.

New generation
NS 15 - 20
rotated version



 Made in Germany

Leading in drainage



Grease separator disposal - the right choice

Grease separators must be completely emptied on a regular basis to dispose of the retained waste materials. The options range from a basic system with manual disposal to a fully automatic disposal system.

Direct disposal

Enables the extraction of the grease separator contents through a permanently installed disposal pipe without opening the tank.

Shredder-Mix-System

Fully mixes the contents of the grease separator into a slurry to aid in the disposal process.

Control unit







Enables the convenient setting and control of the grease separator functions using a control unit mounted on the wall.

Disposal pump

Handles the disposal of the grease separator in the case of longer distances between the separator and the disposal truck.

Fully automatic

Controls the disposal and rinsing processes fully automatically.

						
Disposal options	Standard	Direct	Mix	Auto Mix	Mix & Pump	Auto Mix & Pump
Connection for direct disposal		✓	✓	✓	✓	✓
Shredder-Mix-System			✓	✓	✓	✓
Control unit				✓	✓	✓
Disposal pump					✓	✓
Fully automatic						✓

Connection to the drainage system

with a lifting station or a hybrid lifting station.

Separator outlet below sewer level – lifting station required



- 1 Properly sized lifting station
- 2 Two 45° curved fittings
- 3 Wastewater calming section
- 4 Connected drainage fixtures

NS
15 / 20

Separator outlet above sewer level- hybrid lifting station required



- 1 Properly sized hybrid lifting station
- 2 Two 45° curved fittings
- 3 Wastewater calming section
- 4 Connected drainage fixtures

NS
2 - 10

The wastewater must flow into the grease separator system with gravity. Grease separator systems whose water level is below the backwater level (see EN 752-1) or sewer level should be connected to a properly sized lifting station (shown as 1 in the illustration).

The wastewater pipes to the separator systems must have a gradient of at least 2 % (1:50) to prevent grease blockage. If this is not possible for constructional or operational reasons, and/or if longer pipes are necessary, suitable measures must be taken to prevent grease blockages and deposits. The transition from downpipes to horizontal pipes must be handled with two 45° curved fittings with a large radius.

A wastewater calming section, the length of which corresponds to at least the 10-fold of the inlet pipe's nominal width in millimetres, must then be provided immediately before the inlet of the separator.

Discharge points, such as floor drains, must be equipped with odour traps and, if necessary, with sludge buckets that can be removed for cleaning.

Grease separator *EasyClean* free Auto Mix & Pump NS 2 – 20

for free-standing installation



EN 1825

Tank

Manufactured from virgin, non-recycled polyethylene, for free standing installation in frost protected areas, with integrated sludge trap, sloped interior base improves cleaning and reduces disposal time, inlet flow calming system and outlet flow regulation device, inlet and outlet interchangeable (NS 2 - 10), slanted twin access covers with quick release odour tight snap closures, inspection window with interior cleaning arm, 75 mm OD PN 10 pressure disposal pipe, with integrated fork lift grips at base of separator, low weight - compact design, 100 % corrosion free polyethylene body construction (20 year warranty).

Disposal System

Auto Mix & Pump version fully automated odour free disposal, cleaning and refilling system at touch of button, maintenance free macerating pump (stainless steel blades) for separator cleaning and disposal, includes closure valve for easy pump removal, pump floor mount included with installation hardware and anti-vibration matt, actuator valve for automated transfer from cleaning to disposal mode, pumping capacity 3.0 kW (stronger pumps available on request), 5 m cable length, top mounted water jet(s) for grease layer breakup and water spray nozzles for interior wall cleaning during disposal, twin 1 inch solenoid valves for connection of cold and hot water pipes to separator, 1 inch interior threaded refill inlet with air gap.

Control Unit with LCD display control settable in English, German, French, Italian, Dutch or Polish language and mains power safety on / off switch, with BMS connections (potential free contact and Modbus).

Delivery: System completely assembled.

➤ **Accessories:** Sampling chamber, remote control, *TeleControl*

➤ **Note:** Also available in 60 Hz / 400 V



without SonicControl *with SonicControl*

NS	Art. no.	Art. no.
NS 2	93 002.01/PVS	93 002.02/PVS
NS 3	93 003.01/PVS	93 003.02/PVS
NS 4	93 004.01/PVS	93 004.02/PVS
NS 7	93 007.01/PVS	93 007.02/PVS
NS 10	93 010.01/PVS	93 010.02/PVS



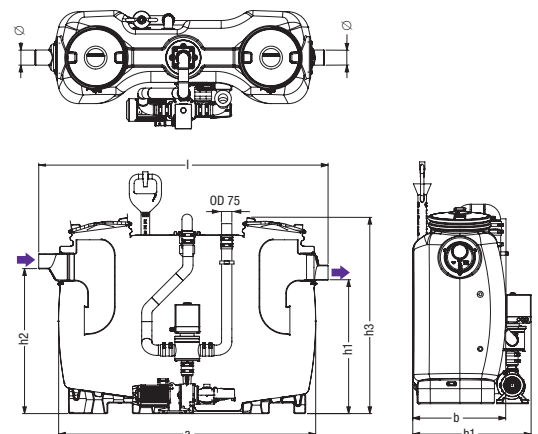
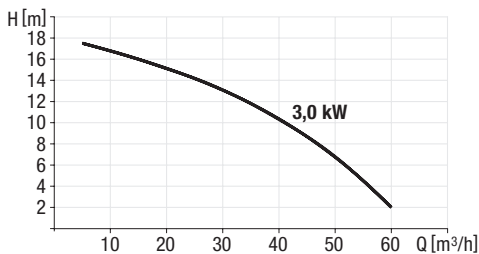
Left version

NS 15	93 015-01-PVS-L	93 015-02-PVS-L
NS 20	93 020-01-PVS-L	93 020-02-PVS-L

Right version

NS 15	93 015-01-PVS-R	93 015-02-PVS-R
NS 20	93 020-01-PVS-R	93 020-02-PVS-R

Pumping capacity



NS	Ø (mm)	a (mm)	Installation dimension l × b (mm)	b1 (mm)	h1 (mm)	h2 (mm)	h3 (mm)	Weight (kg)	Sludge trap (l)	Water and grease (l)	Grease storage (l)	Total (l)
2	110	1500	1735 × 680	860	985	1055	1435	160	200	400	100	600
3	110	1500	1735 × 680	860	985	1055	1435	165	300	300	120	600
4	110	1880	2115 × 680	860	985	1055	1435	178	400	400	160	800
7	160	1910	2145 × 940	1130	1185	1255	1655	226	700	650	280	1350
10	160	2590	2820 × 940	1130	1185	1255	1655	272	1000	900	400	1900
15	200	3230	3539 × 1680	1680	1130	1200	1710	420	1500	2230	600	3730
20	200	3230	3539 × 1680	1680	1130	1200	1710	420	2000	1730	800	3730

Ø = Outer diameter b1 = Set-up dimensions

Grease separator *EasyClean* free Mix & Pump NS 2 – 20

for free-standing installation



EN 1825

Tank

Manufactured from virgin, non-recycled polyethylene, for free standing installation in frost protected areas, with integrated sludge trap, sloped interior base improves cleaning and reduces disposal time, inlet flow calming system and outlet flow regulation device, inlet and outlet interchangeable (NS 2 - 10), slanted twin access covers with quick release odour tight snap closures, inspection window with interior cleaning arm, 75 mm OD PN 10 pressure disposal pipe, with integrated fork lift grips at base of separator, low weight - compact design, 100 % corrosion free polyethylene body construction (20 year warranty).

Disposal System

Mix & Pump version manually controlled odour free disposal, cleaning and refilling system at touch of button, maintenance free macerating pump (stainless steel blades) for separator cleaning and disposal, includes closure valve for easy pump removal, pump floor mount included with installation hardware and anti-vibration matt, manual hand valve for transfer from cleaning to disposal mode, pumping capacity 3.0 kW (stronger pumps available on request), 5 m cable length, top mounted water jet(s) for grease layer breakup and water spray nozzles for interior wall cleaning during disposal, 1 inch manual hand valve for water refill, 1 inch interior threaded refill inlet with air gap.

Control Unit with LCD display control settable in English, German, French, Italian, Dutch or Polish language and mains power safety on/off switch, with BMS connections.

Delivery: System completely assembled.

➤ **Accessories:** Sampling chamber, remote control, *TeleControl*

➤ **Note:** Also available in 60 Hz / 400 V



without *SonicControl* with *SonicControl*

NS	Art. no.	Art. no.
NS 2	93 002.01/MS	93 002.02/MS
NS 3	93 003.01/MS	93 003.02/MS
NS 4	93 004.01/MS	93 004.02/MS
NS 7	93 007.01/MS	93 007.02/MS
NS 10	93 010.01/MS	93 010.02/MS



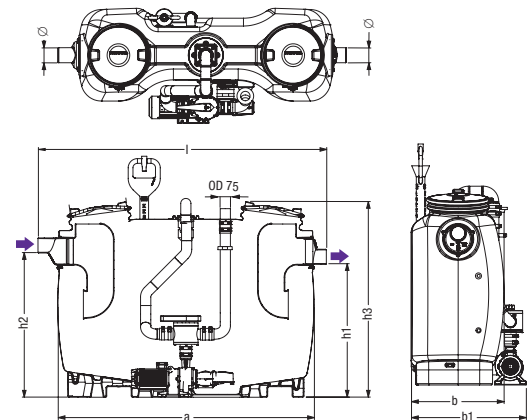
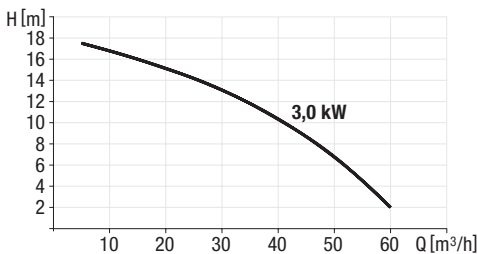
Left version

NS 15	93 015-01-MS-L
NS 20	93 020-01-MS-L

Right version

NS 15	93 015-01-MS-R
NS 20	93 020-01-MS-R

Pumping capacity



NS	Ø (mm)	a (mm)	Installation dimension l × b (mm)	b1 (mm)	h1 (mm)	h2 (mm)	h3 (mm)	Weight (kg)	Sludge trap (l)	Water and grease (l)	Grease storage (l)	Total (l)
2	110	1500	1735 × 680	860	985	1055	1435	160	200	400	100	600
3	110	1500	1735 × 680	860	985	1055	1435	165	300	300	120	600
4	110	1880	2115 × 680	860	985	1055	1435	178	400	400	160	800
7	160	1910	2145 × 940	1130	1185	1255	1655	226	700	650	280	1350
10	160	2590	2820 × 940	1130	1185	1255	1655	272	1000	900	400	1900
15	200	3230	3539 × 1680	1680	1130	1200	1710	420	1500	2230	600	3730
20	200	3230	3539 × 1680	1680	1130	1200	1710	420	2000	1730	800	3730

Ø = Outer diameter b1 = Set-up dimensions

Grease separators *EasyClean* free Auto Mix NS 2 – 20

for free-standing installation



EN 1825

Tank

Manufactured from virgin, non-recycled polyethylene, for free-standing installation in frost protected areas, with integrated sludge trap, sloped interior base improves cleaning and reduces disposal time, inlet flow calming system and outlet flow regulation device, inlet and outlet interchangeable (NS 2 - 10), slanted twin access covers with quick release odour tight snap closures, inspection window with interior cleaning arm, 75 mm OD PN 10 pressure disposal pipe, with integrated fork lift grips at base of separator, low weight - compact design, 100% corrosion free polyethylene body construction (20 year warranty).

Disposal System

Auto Mix version with simultaneous mixing and cleaning of separator interior - requires disposal truck with vacuum system for separator disposal, disposal is completely odour free, maintenance free macerating pump (stainless steel blades) includes closure valve for easy pump removal, pump floor mount included with installation hardware and anti-vibration matt, top mounted water jet(s) for grease layer breakup and water spray nozzles for interior wall cleaning during disposal, 1 inch interior thread refill inlet with air gap, pumping capacity 3.0 kW (stronger pumps available on request), 5 m cable length, twin 1 inch solenoid valves for connection of cold and hot water pipes to separator, with remote control offering full separator disposal control from remote location (from disposal truck location).

Control Unit with LCD display control settable in English, German or French language and mains power safety on/off switch, with BMS connections.

Delivery: System completely assembled.

↗ **Accessories:** Sampling chamber, remote control, *TeleControl*

↗ **Note:** Also available in 60 Hz / 400 V



without *SonicControl* with *SonicControl*

NS	Art. no.	Art. no.
NS 2	93 002.01/DSP	93 002.02/DSP
NS 3	93 003.01/DSP	93 003.02/DSP
NS 4	93 004.01/DSP	93 004.02/DSP
NS 7	93 007.01/DSP	93 007.02/DSP
NS 10	93 010.01/DSP	93 010.02/DSP



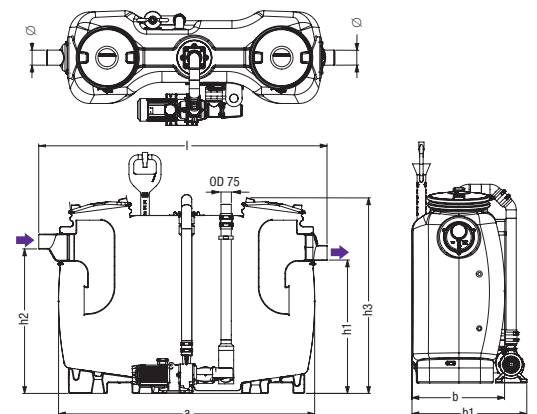
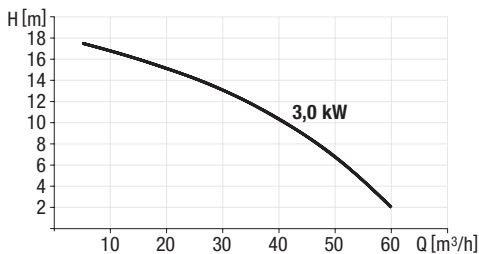
Left version

NS 15	93 015-01-DSP-L
NS 20	93 020-01-DSP-L

Right version

NS 15	93 015-01-DSP-R
NS 20	93 020-01-DSP-R

Pumping capacity



NS	Ø (mm)	a (mm)	Installation dimension		b1 (mm)	h1 (mm)	h2 (mm)	h3 (mm)	Weight (kg)	Sludge trap (l)	Water and grease		Grease storage (l)	Total (l)
			l × b (mm)								(l)	(l)		
2	110	1500	1735 × 680		860	985	1055	1435	150	200	400	100	600	
3	110	1500	1735 × 680		860	985	1055	1435	155	300	300	120	600	
4	110	1880	2115 × 680		860	985	1055	1435	168	400	400	160	800	
7	160	1910	2145 × 940		1130	1185	1255	1655	212	700	650	280	1350	
10	160	2590	2820 × 940		1130	1185	1255	1655	262	1000	900	400	1900	
15	200	3230	3539 × 1680		1680	1130	1200	1710	410	1500	2230	600	3730	
20	200	3230	3539 × 1680		1680	1130	1200	1710	410	2000	1730	800	3730	

Ø = Outer diameter b1 = Set-up dimensions

Grease separators *EasyClean* free Mix NS 2 – 20

for free-standing installation



EN 1825

Tank

Manufactured from virgin, non-recycled polyethylene, for free standing installation in frost protected areas, with integrated sludge trap, sloped interior base improves cleaning and reduces disposal time, inlet flow calming system and outlet flow regulation device, inlet and outlet interchangeable (NS 2 - 10), slanted twin access covers with quick release odour tight snap closures, inspection window with interior cleaning arm, 75 mm OD PN 10 pressure disposal pipe, with integrated fork lift grips at base of separator, low weight - compact design, 100 % corrosion free polyethylene body construction (20 year warranty).

Disposal System

Mix version with simultaneous mixing and cleaning of separator interior - requires disposal truck with vacuum system for separator disposal, disposal is completely odour free, maintenance free macerating pump (stainless steel blades) includes closure valve for easy pump removal, pump floor mount included with installation hardware and anti-vibration mat, pumping capacity 3.0 kW (stronger pumps available on request), 5 m cable length, top mounted water jet(s) for grease layer breakup and water spray nozzles for interior wall cleaning during disposal, 1 inch interior thread refill inlet with air gap, 1 inch manual hand valve for water refill, with hand held operation controller.

Delivery: System completely assembled.

- **Accessories:** Sampling chamber
- **Note:** Also available in 60 Hz / 400 V



without SonicControl with SonicControl

NS	Art. no.	Art. no.
NS 2	93 002.31/DS	93 002.32/DS
NS 3	93 003.31/DS	93 003.32/DS
NS 4	93 004.31/DS	93 004.32/DS
NS 7	93 007.31/DS	93 007.32/DS
NS 10	93 010.31/DS	93 010.32/DS



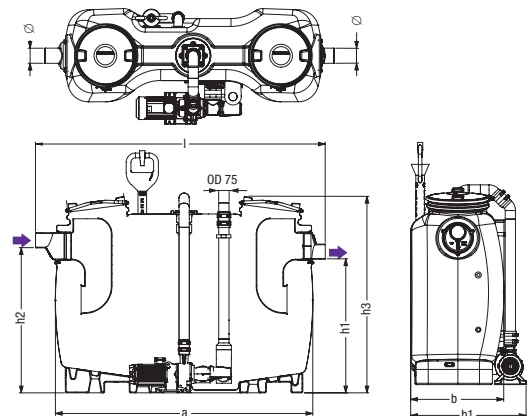
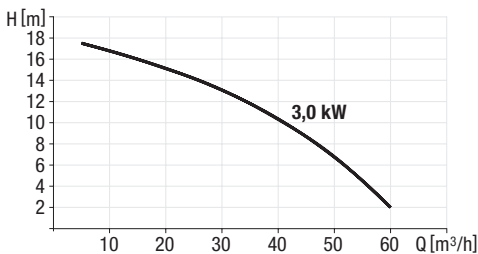
Left version

NS 15	93 015-01-DS-L
NS 20	93 020-01-DS-L

Right version

NS 15	93 015-01-DS-R
NS 20	93 020-01-DS-R

Pumping capacity



NS	Ø (mm)	a (mm)	Installation dimension l × b (mm)	b1 (mm)	h1 (mm)	h2 (mm)	h3 (mm)	Weight (kg)	Sludge trap (l)	Water and grease (l)	Grease storage (l)	Total (l)
2	110	1500	1735 × 680	860	985	1055	1435	145	200	400	100	600
3	110	1500	1735 × 680	860	985	1055	1435	150	300	300	120	600
4	110	1880	2115 × 680	860	985	1055	1435	163	400	400	160	800
7	160	1910	2145 × 940	1130	1185	1255	1655	211	700	650	280	1350
10	160	2590	2820 × 940	1130	1185	1255	1655	257	1000	900	400	1900
15	200	3230	3539 × 1680	1680	1130	1200	1710	410	1500	2230	600	3730
20	200	3230	3539 × 1680	1680	1130	1200	1710	410	2000	1730	800	3730

Ø = Outer diameter b1 = Set-up dimensions

Grease separators *EasyClean* free Direct NS 2 – 20 for free-standing installation



EN 1825

Tank

Manufactured from virgin, non-recycled polyethylene, for free standing installation in frost protected areas, with integrated sludge trap, sloped interior base improves cleaning and reduces disposal time, inlet flow calming system and outlet flow regulation device, inlet and outlet interchangeable (NS 2 - 10), slanted twin access covers with quick release odour tight snap closures, 75 mm OD PN 10 pressure disposal pipe, with integrated fork lift grips at base of separator, low weight - compact design, 100% corrosion free polyethylene body construction (20 year warranty).

Disposal System

Direct version with factory installed pressure pipe suction outlet - requires disposal truck with vacuum system for separator disposal, disposal is completely odour free.

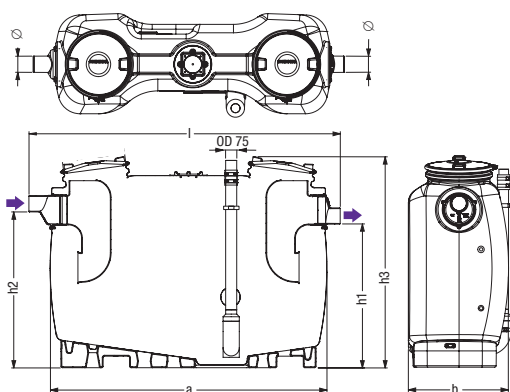
Delivery: System completely assembled.

➔ **Accessories:** Sampling chamber, inspection window, refill inlet



without SonicControl with SonicControl

NS	Art. no.	Art. no.
With inspection window		
NS 2	93 002.21/D	
NS 3	93 003.21/D	
NS 4	93 004.21/D	
NS 7	93 007.21/D	
NS 10	93 010.21/D	
With inspection window and refill inlet		
NS 2	93 002.31/D	93 002.32/D
NS 3	93 003.31/D	93 003.32/D
NS 4	93 004.31/D	93 004.32/D
NS 7	93 007.31/D	93 007.32/D
NS 10	93 010.31/D	93 010.32/D
Left version		
NS 15	93 015-01-D-L	
NS 20	93 020-01-D-L	
Right version		
NS 15	93 015-01-D-R	
NS 20	93 020-01-D-R	



NS	Ø (mm)	a (mm)	Installation dimension l × b (mm)	b1 (mm)	h1 (mm)	h2 (mm)	h3 (mm)	Weight (kg)	Sludge trap (l)	Water and grease (l)	Grease storage (l)	Total (l)
2	110	1500	1735 × 680	860	985	1055	1435	69	200	400	100	600
3	110	1500	1735 × 680	860	985	1055	1435	74	300	300	120	600
4	110	1880	2115 × 680	860	985	1055	1435	87	400	400	160	800
7	160	1910	2145 × 940	1130	1185	1255	1655	135	700	650	280	1350
10	160	2590	2820 × 940	1130	1185	1255	1655	181	1000	900	400	1900
15	200	3230	3539 × 1680	1490	1130	1200	1710	360	1500	2230	600	3730
20	200	3230	3539 × 1680	1490	1130	1200	1710	360	2000	1730	800	3730

Ø = Outer diameter b1 = Set-up dimensions

Grease separators *EasyClean* free Standard NS 2 – 20

for free-standing installation



EN 1825

Tank

Manufactured from virgin, non-recycled polyethylene, for free standing installation in frost protected areas, with integrated sludge trap, sloped interior base improves cleaning and reduces disposal time, inlet flow calming system and outlet flow regulation device, inlet and outlet interchangeable (NS 2 - 10), slanted twin access covers with quick release odour tight snap closures, integrated fork lift grips at base of separator, 100% corrosion free polyethylene body construction (20 year warranty).

Disposal System

Standard version requires disposal truck with vacuum system for separator disposal.

Delivery: System completely assembled.

➔ **Accessories:** Sampling chamber, inspection window, refill inlet



without *SonicControl* with *SonicControl*

NS Art. no. Art. no.

Without accessories

NS 2	93 002.01
NS 3	93 003.01
NS 4	93 004.01
NS 7	93 007.01
NS 10	93 010.01

With inspection window and refill inlet

NS 2	93 002.31	93 002.32
NS 3	93 003.31	93 003.32
NS 4	93 004.31	93 004.32
NS 7	93 007.31	93 007.32
NS 10	93 010.31	93 010.32

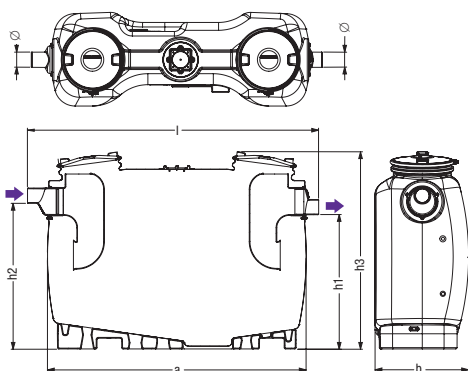


Left version

NS 15	93 015-01-L
NS 20	93 020-01-L

Right version

NS 15	93 015-01-R
NS 20	93 020-01-R



NS	Ø (mm)	a (mm)	Installation dimension l × b (mm)	b1 (mm)	h1 (mm)	h2 (mm)	h3 (mm)	Weight (kg)	Sludge trap (l)	Water and grease (l)	Grease storage (l)	Total (l)
2	110	1500	1735 × 680	860	985	1055	1435	69	200	400	100	600
3	110	1500	1735 × 680	860	985	1055	1435	74	300	300	120	600
4	110	1880	2115 × 680	860	985	1055	1435	87	400	400	160	800
7	160	1910	2145 × 940	1130	1185	1255	1655	135	700	650	280	1350
10	160	2590	2820 × 940	1130	1185	1255	1655	181	1000	900	400	1900
15	200	3230	3539 × 1680	1490	1130	1200	1710	355	1500	2230	600	3730
20	200	3230	3539 × 1680	1490	1130	1200	1710	355	2000	1730	800	3730

Ø = Outer diameter b1 = Set-up dimensions

BIM

files available at
www.kessel.com



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KESSEL AG

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www.kessel.com