



» Fermentation and storage tank base tank FS-MO stacking tank AS-MO

The FS-MO base tank is a typical, round, upright standing fermentation and storage tank made of high quality stainless steel. Together with the corresponding stacking tank AS-MO, the FS-MO has been satisfying our clients for decades. Being the all-rounders they are, both tanks can be used for almost all kinds of applications and processes in the production of beverages.

Our tanks live up to their promises: they all have perfect weld seams, an accurately sealing manhole and are all easy to clean. By default the tank top is executed in AISI 316.

If you don't need to stack immediately: no problem! The base tank can be extended with a stacking tank also at a later date. Provided that the maximum total volume per stack is not exceeded, the two tanks can be combined without problems even when they are different sizes (see page 30).



APPLICATION RANGE (PRESSURELESS)

- › Fermentation
- › Maturation
- › Storage
- › Mixing
- › Processes

Ideal for

- › Wine
- › Juice
- › Must
- › Spirits
- › Non-alcoholic beverages
- › Alcoholic beverages

STANDARD EQUIPMENT FOR BASE TANK FS-MO / STACKING TANK AS-MO

- › Tank shell and tank bottom made of AISI 304 stainless steel, surface IIIId (2R), marbled outside
- › Tank top made of AISI 316 stainless steel, surface IIIId (2R), marbled outside
- › From tank- \varnothing of 1,000 mm upwards with lifting lugs
- › Tanks from 2,000 mm tank height upwards and stacking tanks with ladder safety bow
- › Vaulted, stable tank top with moulded-on forward up-slope for complete filling and ventilation assuring a very small air contact area
- › Moulded connection neck with filling and vent neck external thread NW 50 Rd 78 x 1/6"
- › Free-standing base tank on three welded-on legs
- › Stacking tank with three welded-on stacking legs

SAMPLING

- › Weld-on thread NW 10 DIN 11851 with sealing cap (for the installation of sampling tap)

MANHOLE

- › Stable manhole neck seamlessly moulded from the tank shell
- › Up to 320 litres capacity 320 x 250 mm
- › From 525 litres capacity upwards 420 x 320 mm
- › Door with butterfly bow and hand wheel

RACKING OUTLET

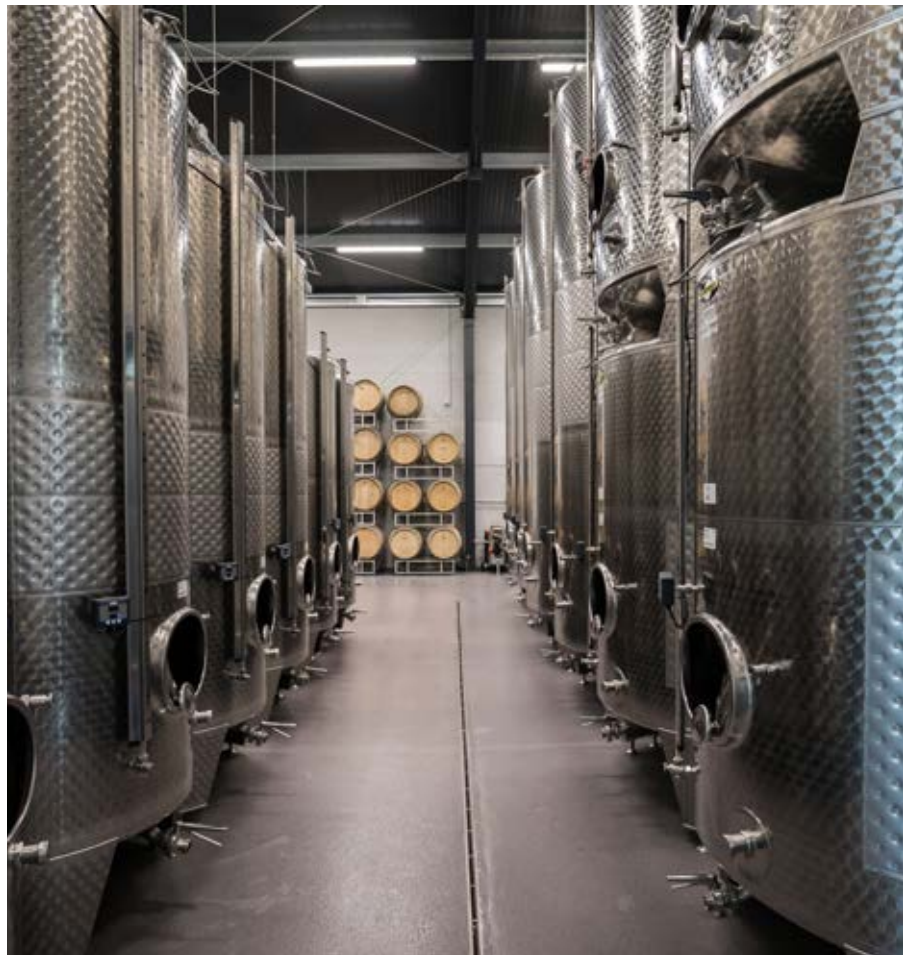
- › Plain surface with drilled hole \varnothing 48 mm (to hold flap valve Gr. 37 or weld-on thread NW 40, NW 50 DIN 11851)
- › Up to 320 litres capacity fixed racking outlet plain surface
- › From 525 litres capacity upwards with welded-on reinforcing plate

FILL LEVEL











- › Weld-on thread NW 10 DIN 11851 with sealing cap including fastening points on tank shell (for installation of fill level indicator)

BOTTOM OUTLET

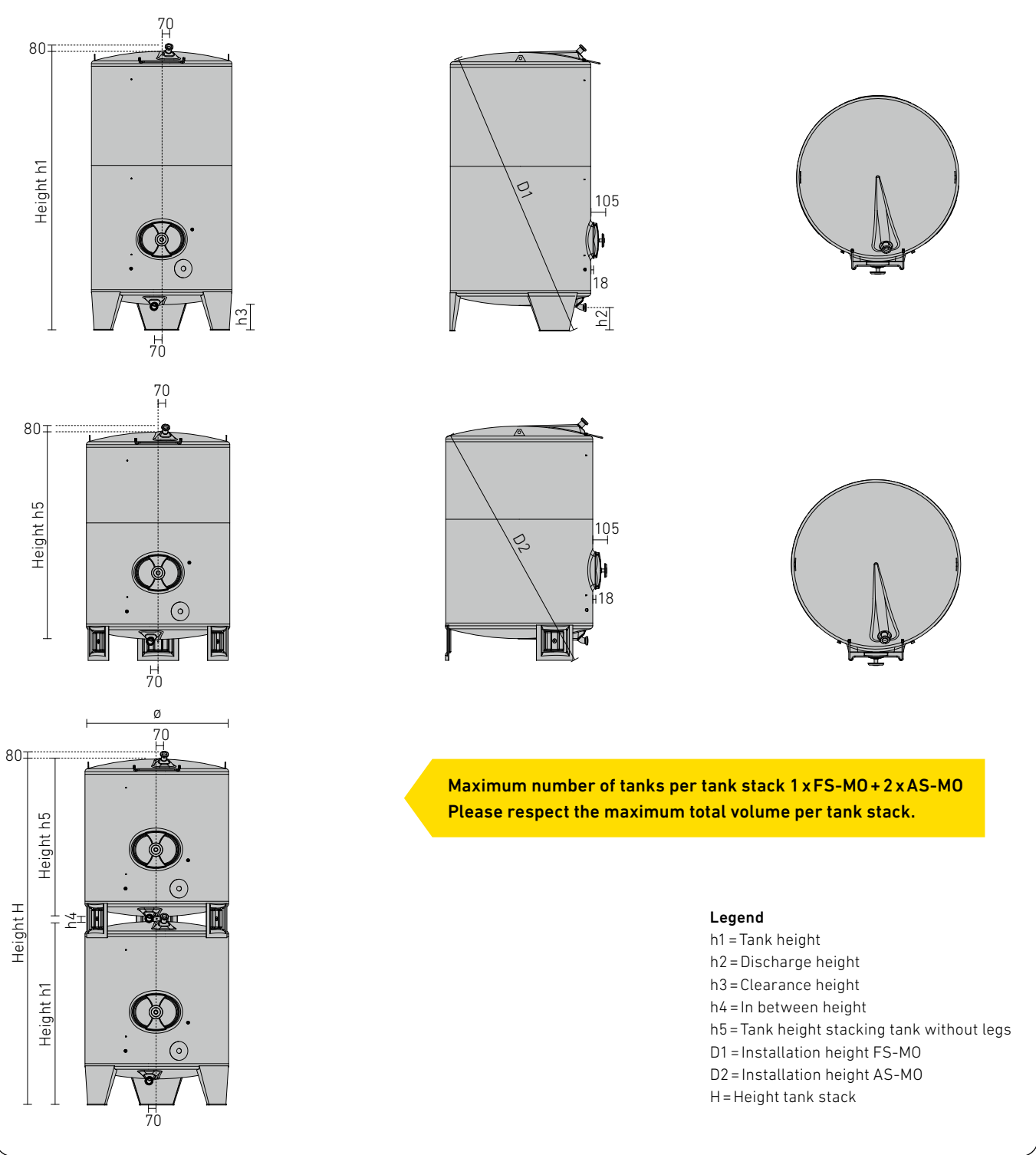
- › Vaulted, stable tank bottom with integrally moulded forward down-slope for complete draining with moulded connection neck, impeding suction effect with bottom outlet neck
- › Up to 820 mm \varnothing NW 40 DIN 11851
- › From 1,000 mm \varnothing NW 50 DIN 11851



SET-UP EXAMPLE FOR BASE TANK FS-MO / STACKING TANK AS-MO

	Item	Order No.
	<p>Base tank FS-MO-120-1000 litres</p> <p>› h1 = approx. 1,267 mm</p> <p>› Standard equipment as on page 27</p>	FS-MO-120-1000
	<p>Stacking tank AS-MO-120-2000 litres</p> <p>› h5 = 1,916 mm, H = 1,267 mm (h1) + 60 mm (h4) + 1,916 mm (h5) = 3,243 mm, $H_{ges} = 3,243 \text{ mm (H)}, 80 \text{ mm (connection)} + \text{approx. } 100 \text{ mm (height compensation)}$ = approx. 3,423 mm</p> <p>› Standard equipment as on page 27</p>	AS-MO-120-2000
	<p>Sampling (page 179)</p> <p>› With sampling tap NW10 DIN 11851</p>	2x 64949
	<p>Racking outlet (page 175)</p> <p>› With mounted flap valve Gr. 37</p>	2x KA-120I
	<p>Fill level (page 180)</p> <p>› Mounted fill level indicator NW 10</p>	2x FS-130H
	<p>Temperature measurement (page 182)</p> <p>› Bi-metal dial thermometer ø 100 mm, measuring range -20 °C to +60 °C</p> <p>› Threaded sleeve with locking screw and cap nut NW10 DIN 11851</p>	2x TM-140C
	<p>Heating and cooling jacket for base tank (page 130)</p> <p>› Double jacket A1 1,3 m² with welded gland thread G 1" for connection to available warm water / cold water source</p> <p>› Version 1, Layout 15, connection position A1</p>	1A1
	<p>Heating and cooling jacket for stacking tank (page 130)</p> <p>› Double jacket A1 1,3 m² with welded gland thread G 1" for connection to available warm water / cold water source</p> <p>› Version 1, layout 15, connection position A1</p>	1A1
	<p>Adjustable feet (page 186)</p> <p>› With adjustable feet for tank legs (H = + approx. 100 mm)</p>	46127

DIMENSIONS OF BASE TANK FS1-M0, FS-M0 / STACKING TANK AS1-M0, AS-M0



**Maximum number of tanks per tank stack 1 x FS-M0 + 2 x AS-M0
Please respect the maximum total volume per tank stack.**

Legend

- h1 = Tank height
- h2 = Discharge height
- h3 = Clearance height
- h4 = In between height
- h5 = Tank height stacking tank without legs
- D1 = Installation height FS-M0
- D2 = Installation height AS-M0
- H = Height tank stack

Intermediate sizes available

- In case of 820 mm ϕ a 10 mm shell height equates to = 5.30 litres tank volume
- In case of 1,000 mm ϕ a 10 mm shell height equates to = 7.80 litres tank volume
- In case of 1,200 mm ϕ a 10 mm shell height equates to = 11.30 litres tank volume
- In case of 1,400 mm ϕ a 10 mm shell height equates to = 15.30 litres tank volume
- In case of 1,600 mm ϕ a 10 mm shell height equates to = 20.00 litres tank volume
- In case of 1,800 mm ϕ a 10 mm shell height equates to = 25.30 litres tank volume
- In case of 2,000 mm ϕ a 10 mm shell height equates to = 31.20 litres tank volume

Pricing for intermediate sizes

for intermediate sizes the price of the next larger size will apply (plus customization costs)

Option: Tank contact parts

made of AISI 316 stainless steel

Surface III d (2R), marbled outside on special request

Brushed outer finish

on special request

BASE TANK FS1-MO, FS-MO / STACKING TANK AS1-MO, AS-MO: TANK Ø 820 MM

Capacity	Ø	h1	h2	h3	h4	h5	D1	D2	H	Order No.	Order No.
litres	mm	mm	mm	mm	mm	mm	mm	mm	mm	Tank 1 FS-MO	Tank 2-3 AS-MO
320	820	914	205	230	84	684	1,075	1,100	*	FS1-MO-082-0320	AS1-MO-082- 0320
525	820	1,314	205	230	84	1,276	1,516	1,523	*	FS-MO-082-0525	AS-MO-082- 0525
625	820	1,509	205	230	84	1,284	1,693	1,696	*	FS-MO-082-0625	AS-MO-082- 0625
750	820	1,772	205	230	84	1,547	1,937	1,940	*	FS-MO-082-0750	AS-MO-082- 0750
1,000	820	2,258	205	230	84	-	2,403	-	-	FS-MO-082-1000	-

Tank-Ø 820 mm; maximum total volume per tank stack 1,265 litres

BASE TANK FS-MO / STACKING TANK AS-MO: TANK Ø 1.000 MM

Capacity	Ø	h1	h2	h3	h4	h5	D1	D2	H	Order No.	Order No.
litres	mm	mm	mm	mm	mm	mm	mm	mm	mm	Tank 1 FS-MO	Tank 2-3 AS-MO
650	1,000	1,205	210	239	115	966	1,438	1,460	*	FS-MO-100-0650	AS-MO-100 -0650
850	1,000	1,455	210	239	115	1,216	1,645	1,665	*	FS-MO-100-0850	AS-MO-100 -0850
1,050	1,000	1,705	210	239	115	1,466	1,863	1,882	*	FS-MO-100-1050	AS-MO-100-1050
1,250	1,000	1,955	210	239	115	1,716	2,088	2,106	*	FS-MO-100-1250	AS-MO-100-1250
1,400	1,000	2,193	210	239	115	-	2,307	-	-	FS-MO-100-1400	-
1,550	1,000	2,318	210	239	115	-	2,424	-	-	FS-MO-100-1550	-
1,800	1,000	2,693	210	239	115	-	2,778	-	-	FS-MO-100-1800	-
2,000	1,000	2,943	210	239	115	-	3,017	-	-	FS-MO-100-2000	-
2,200	1,000	3,193	210	239	115	-	3,257	-	-	FS-MO-100-2200	-
2,350	1,000	3,443	210	239	115	-	3,499	-	-	FS-MO-100-2350	-
2,500	1,000	3,556	210	239	115	-	3,609	-	-	FS-MO-100-2500	-

Tank-Ø 1,000 mm; maximum total volume per tank stack 2,500 litres

BASE TANK FS-MO / STACKING TANK AS-MO: TANK Ø 1.200 MM

Capacity	Ø	h1	h2	h3	h4	h5	D1	D2	H	Order No.	Order No.
litres	mm	mm	mm	mm	mm	mm	mm	mm	mm	Tank 1 FS-MO	Tank 2-3 AS-MO
1,000	1,200	1,267	230	257	60	1,010	1,579	1,546	*	FS-MO-120 -1000	AS -MO-120-1000
1,300	1,200	1,517	230	257	60	1,260	1,775	1,739	*	FS-MO-120 -1300	AS -MO-120-1300
1,550	1,200	1,767	230	257	60	1,510	1,984	1,946	*	FS-MO-120 -1550	AS -MO-120-1550
1,800	1,200	2,017	230	257	60	1,760	2,201	2,162	*	FS-MO-120 -1800	AS -MO-120-1800
2,000	1,200	2,173	230	257	60	1,916	2,329	2,300	*	FS-MO-120 -2000	AS -MO-120-2000
2,100	1,200	2,255	230	257	60	1,998	2,414	2,375	*	FS-MO-120 -2100	AS -MO-120-2100
2,350	1,200	2,505	230	257	60	-	2,642	-	-	FS-MO-120 -2350	-
2,500	1,200	2,630	230	257	60	-	2,758	-	-	FS-MO-120 -2500	-
2,650	1,200	2,755	230	257	60	-	2,874	-	-	FS-MO-120 -2650	-
3,000	1,200	3,087	230	257	60	-	3,186	-	-	FS-MO-120 -3000	-
3,200	1,200	3,255	230	257	60	-	3,346	-	-	FS-MO-120 -3200	-
3,500	1,200	3,505	230	257	60	-	3,584	-	-	FS-MO-120 -3500	-
3,750	1,200	3,743	230	257	60	-	3,813	-	-	FS-MO-120 -3750	-
4,000	1,200	3,993	230	257	60	-	4,054	-	-	FS-MO-120 -4000	-
4,300	1,200	4,243	230	257	60	-	4,297	-	-	FS-MO-120 -4300	-
4,600	1,200	4,493	230	257	60	-	4,540	-	-	FS-MO-120 -4600	-

Tank-Ø 1,200 mm; maximum total volume per tank stack 3,400 litres

* The respective height H is calculated as follows: $H = h1 + h4 + h5$

BASE TANK FS-MO / STACKING TANK AS-MO: TANK Ø 1.400 MM

Capacity	Ø	h1	h2	h3	h4	h5	D1	D2	H	Order No.	Order No.
litres	mm	mm	mm	mm	mm	mm	mm	mm	mm	Tank 1 FS-MO	Tank 2-3 AS-MO
1,400	1,400	1,293	240	248	40	1,042	1,711	1,756	*	FS -MO -140 -1400	AS -MO-140-1400
1,750	1,400	1,543	240	248	40	1,292	1,894	1,928	*	FS -MO -140 -1750	AS -MO-140-1750
2,150	1,400	1,793	240	248	40	1,542	2,092	2,117	*	FS -MO -140 -2150	AS -MO-140-2150
2,500	1,400	2,043	240	248	40	1,792	2,300	2,317	*	FS -MO -140 -2500	AS -MO-140-2500
2,850	1,400	2,281	240	248	40	2,030	2,505	2,516	*	FS -MO -140 -2850	AS -MO-140-2850
3,000	1,400	2,373	240	248	40	2,122	2,586	2,595	*	FS -MO -140 -3000	AS -MO-140-3000
3,200	1,400	2,531	240	248	40	-	2,726	-	-	FS -MO -140 -3200	-
3,600	1,400	2,781	240	248	40	-	2,952	-	-	FS -MO -140 -3600	-
4,000	1,400	3,031	240	248	40	-	3,181	-	-	FS -MO -140 -4000	-
4,400	1,400	3,281	240	248	40	-	3,414	-	-	FS -MO -140 -4400	-
4,750	1,400	3,531	240	248	40	-	3,648	-	-	FS -MO -140 -4750	-
5,100	1,400	3,769	240	248	40	-	3,874	-	-	FS -MO -140 -5100	-
5,500	1,400	4,019	240	248	40	-	4,112	-	-	FS -MO -140 -5500	-
5,850	1,400	4,269	240	248	40	-	4,351	-	-	FS -MO -140 -5850	-
6,300	1,400	4,519	240	248	40	-	4,592	-	-	FS -MO -140 -6300	-
6,700	1,400	4,769	240	248	40	-	4,833	-	-	FS -MO -140 -6700	-

Tank-Ø 1,400 mm; maximum total volume per tank stack 4,400 litres

BASE TANK FS-MO / STACKING TANK AS-MO: TANK Ø 1.600 MM

Capacity	Ø	h1	h2	h3	h4	h5	D1	D2	H	Order No.	Order No.
litres	mm	mm	mm	mm	mm	mm	mm	mm	mm	Tank 1 FS-MO	Tank 2-3 AS-MO
1,800	1,600	1,347	225	256	70	1,086	1,848	1,840	*	FS -MO-160- 1800	AS- MO-160- 1800
2,300	1,600	1,597	225	256	70	1,336	2,023	2,015	*	FS -MO-160- 2300	AS- MO-160- 2300
2,800	1,600	1,847	225	256	70	1,586	2,212	2,205	*	FS -MO-160- 2800	AS- MO-160- 2800
3,300	1,600	2,097	225	256	70	1,836	2,413	2,406	*	FS -MO-160- 3300	AS- MO-160- 3300
3,800	1,600	2,335	225	256	70	2,074	2,612	2,605	*	FS -MO-160- 3800	AS- MO-160- 3800
4,200	1,600	2,585	225	256	70	2,324	2,827	2,822	*	FS -MO-160- 4200	AS- MO-160- 4200
4,800	1,600	2,835	225	256	70	2,574	3,048	3,043	*	FS -MO-160- 4800	AS- MO-160- 4800
5,200	1,600	3,085	225	256	70	-	3,273	-	-	FS -MO-160- 5200	-
5,800	1,600	3,335	225	256	70	-	3,501	-	-	FS -MO-160- 5800	-
6,200	1,600	3,585	225	256	70	-	3,733	-	-	FS -MO-160- 6200	-
6,700	1,600	3,823	225	256	70	-	3,955	-	-	FS -MO-160- 6700	-
7,200	1,600	4,073	225	256	70	-	4,190	-	-	FS -MO-160- 7200	-
7,700	1,600	4,323	225	256	70	-	4,427	-	-	FS -MO-160- 7700	-
8,200	1,600	4,573	225	256	70	-	4,665	-	-	FS -MO-160- 8200	-
8,700	1,600	4,823	225	256	70	-	4,905	-	-	FS -MO-160- 8700	-
9,200	1,600	5,073	225	256	70	-	5,145	-	-	FS -MO-160- 9200	-
9,700	1,600	5,311	225	256	70	-	5,375	-	-	FS -MO-160- 9700	-
10,000	1,600	5,561	225	256	70	-	5,617	-	-	FS -MO-160- 10000	-

Tank-Ø 1,600 mm; maximum total volume per tank stack 10,000 litres

Since the legs of the stacking tank are welded with the top of the base tank only the entire tank stack can be purchased. This way, the size h1 increases by 35mm and size D1 by 170mm. Up to 6,200 litres capacity with standard legs, from 6,700 litres upwards with boxed, closed legs.

* The respective height H is calculated as follows: $H = h1 + h4 + h5$

BASE TANK FS-MO / STACKING TANK AS-MO: TANK Ø 1.800 MM

Capacity	Ø	h1	h2	h3	h4	h5	D1	D2	H	Order No.	Order No.
litres	mm	mm	mm	mm	mm	mm	mm	mm	mm	Tank 1 FS-MO	Tank 2-3 AS-MO
2,400	1,800	1,369	225	259	70	1,110	2,007	2,006	*	FS- MO-180- 2400	AS- MO-180- 2400
3,000	1,800	1,619	225	259	70	1,360	2,171	2,168	*	FS- MO-180- 3000	AS- MO-180- 3000
3,600	1,800	1,869	225	259	70	1,610	2,350	2,346	*	FS- MO-180- 3600	AS- MO-180- 3600
4,200	1,800	2,119	225	259	70	1,860	2,541	2,536	*	FS- MO-180- 4200	AS- MO-180- 4200
4,800	1,800	2,357	225	259	70	2,098	2,732	2,726	*	FS- MO-180- 4800	AS- MO-180- 4800
5,500	1,800	2,607	225	259	70	2,348	2,940	2,933	*	FS- MO-180- 5500	AS- MO-180- 5500
6,100	1,800	2,857	225	259	70	2,598	3,154	3,147	*	FS- MO-180- 6100	AS- MO-180- 6100
6,700	1,800	3,107	225	259	70	2,848	3,373	3,366	*	FS- MO-180- 6700	AS- MO-180- 6700
7,300	1,800	3,357	225	259	70	3,098	3,596	3,588	*	FS- MO-180- 7300	AS- MO-180- 7300
8,000	1,800	3,607	225	259	70	3,348	3,823	3,815	*	FS- MO-180- 8000	AS- MO-180- 8000
8,500	1,800	3,845	225	259	70	3,586	4,041	4,032	*	FS- MO-180- 8500	AS- MO-180- 8500
9,200	1,800	4,095	225	259	70	3,836	4,272	4,264	*	FS- MO-180- 9200	AS- MO-180- 9200
9,800	1,800	4,345	225	259	70	4,086	4,506	4,497	*	FS- MO-180- 9800	AS- MO-180- 9800
10,400	1,800	4,595	225	259	70	-	4,741	-	-	FS- MO-180-10400	-
11,000	1,800	4,845	225	259	70	-	4,977	-	-	FS- MO-180-11000	-
11,600	1,800	5,095	225	259	70	-	5,215	-	-	FS- MO-180-11600	-
12,200	1,800	5,333	225	259	70	-	5,443	-	-	FS- MO-180-12200	-
12,800	1,800	5,583	225	259	70	-	5,682	-	-	FS- MO-180-12800	-
13,500	1,800	5,833	225	259	70	-	5,923	-	-	FS- MO-180-13500	-
14,000	1,800	6,083	225	259	70	-	6,164	-	-	FS- MO-180-14000	-
14,700	1,800	6,333	225	259	70	-	6,407	-	-	FS- MO-180-14700	-
15,300	1,800	6,583	225	259	70	-	6,649	-	-	FS- MO-180-15300	-

Tank-Ø 1,800 mm; maximum total volume per tank stack 12,500 litres

Since the legs of the stacking tank are welded with the top of the base tank only the entire tank stack can be purchased. This way, the size h1 increases by 30 mm and size D1 by 180 mm. Up to 8,000 litres capacity with standard legs, from 8,500 litres upwards with boxed, closed legs.

* The respective height H is calculated as follows: $H = h1 + h4 + h5$



BASE TANK FS-MO / STACKING TANK AS-MO: TANK Ø 2.000 MM

Capacity	Ø	h1	h2	h3	h4	h5	D1	D2	H	Order No.	
										Tank 1 FS-MO	Tank 2-3 AS-MO
litres	mm	mm	mm	mm	mm	mm	mm	mm	mm		
3,000	2,000	1,428	225	260	100	1,168	2,148	2,237	*	FS- MO-200- 3000	AS- MO-200- 3000
3,800	2,000	1,678	225	260	100	1,418	2,305	2,393	*	FS- MO-200- 3800	AS- MO-200- 3800
4,600	2,000	1,928	225	260	100	1,668	2,478	2,564	*	FS- MO-200- 4600	AS- MO-200- 4600
5,300	2,000	2,178	225	260	100	1,918	2,663	2,747	*	FS- MO-200- 5300	AS- MO-200- 5300
6,100	2,000	2,416	225	260	100	2,156	2,849	2,931	*	FS- MO-200- 6100	AS- MO-200- 6100
6,800	2,000	2,666	225	260	100	2,406	3,052	3,132	*	FS- MO-200- 6800	AS- MO-200- 6800
7,600	2,000	2,916	225	260	100	2,656	3,261	3,340	*	FS- MO-200- 7600	AS- MO-200- 7600
8,400	2,000	3,166	225	260	100	2,906	3,476	3,553	*	FS- MO-200- 8400	AS- MO-200- 8400
9,200	2,000	3,416	225	260	100	3,156	3,695	3,771	*	FS- MO-200- 9200	AS- MO-200- 9200
10,000	2,000	3,666	225	260	100	3,406	3,918	3,992	*	FS- MO-200-10000	AS- MO-200-10000
10,600	2,000	3,904	225	260	100	-	4,133	-	-	FS- MO-200-10600	-
11,400	2,000	4,154	225	260	100	-	4,362	-	-	FS- MO-200-11400	-
12,200	2,000	4,404	225	260	100	-	4,592	-	-	FS- MO-200-12200	-
13,000	2,000	4,654	225	260	100	-	4,825	-	-	FS- MO-200-13000	-
13,700	2,000	4,904	225	260	100	-	5,059	-	-	FS- MO-200-13700	-
14,500	2,000	5,154	225	260	100	-	5,295	-	-	FS- MO-200-14500	-
15,200	2,000	5,392	225	260	100	-	5,521	-	-	FS- MO-200-15200	-
16,000	2,000	5,642	225	260	100	-	5,759	-	-	FS- MO-200-16000	-
16,800	2,000	5,892	225	260	100	-	5,998	-	-	FS- MO-200-16800	-
17,500	2,000	6,142	225	260	100	-	6,238	-	-	FS- MO-200-17500	-
18,300	2,000	6,392	225	260	100	-	6,479	-	-	FS- MO-200-18300	-
19,000	2,000	6,642	225	260	100	-	6,720	-	-	FS- MO-200-19000	-
20,000	2,000	6,880	225	260	100	-	6,950	-	-	FS- MO-200-20000	-

Tank-Ø 2,000 mm; maximum total volume per tank stack 16,300 litres

Since the legs of the stacking tank are welded with the top of the base tank only the entire tank stack can be purchased. This way, the size h1 increases by 60mm and size D1 by 220mm. Up to 10,000litres capacity with standard legs, from 10,600 litres upwards with boxed, closed legs.

* The respective height H is calculated as follows: $H = h1 + h4 + h5$

