

## Sample changer TW 7200

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The sample changer TW 7200 replaces the sample changer TW alpha plus from now on (January 2021). The differences are not immediately visible at first glance from the front. This applies above all to the standard sets TW 7200-16 and 7200-24, i.e. the sample tray with 16 and 24 positions:



**Fig.1:** TW 7200 with 16 position sample tray and titration head TZ 1463

## Differences TW alpha plus and TW 7200 in electronics and mechanics

The electronics and mechanics have been completely redeveloped.

Hardware	TW alpha plus	TW 7200
Interfaces/ports	2 x RS232 1 x pump 4 x I/O 1 x stirrer	2 x RS232 2 x pumps 4 x I/O-ports 1 x stirrer 1 x USB-A 1 x USB—Mini-B (PC) 1 x Ethernet/LAN
Built-in magnetic stirrer for stirring from below	1	2
Beaker sensor	X	X
Head motor for horizontal movement	—	X
Automatic sample tray detection	—	X

Double-row sample trays can be used in addition to the single-row 16, 18 and 24 sample trays. If the sample volume increases, a 25 double-row sample plate with 25 positions can be used for the 150 ml beakers, for example. No conversion is necessary, as the motor for the horizontal drive is already built in.



**Fig. 2:** With head position retracted in first row



**Fig. 3:** With extended head position in second row



**Fig. 4:** TW 7200 with 25 sample tray TZ 4025, titration head TZ 1467, 1 x pump MP 25, electrodes and TL 7800.



**Fig. 5 a/5 b:** TW 7200 with 38 sample tray TZ 4038, titration head TZ 1469 (new version) pH-Micro - and conductivity electrode SCPpHT-MIC-AMF-3M-DIN-N and LF 413T-3M ForkIDS.

## Sample changer and sample changer sets

Description	Order.no.	TypeNo
Basic unit TW 7200 with two integrated magnetic stirrer, connection cable for rod stirrer, USB connection cable TZ 3840, power supply 100- 240 V	285228000	TW 7200
Basic unit TW 7200 with sample rack TZ 4016 for 16 samples, without beakers, incl. titration head TZ 1463 and power supply 100- 240 V. Suitable beakers are 150 ml TZ 1784, TZ 1788 or 250 ml TZ 1787, TZ 1780	285228010	TW 7200-16
Basic unit TW 7200 with sample rack TZ 4018 for 18 samples, without beakers, incl. titration head TZ 1464 and power supply 100- 240 V. Suitable beakers are TZ 1765 (100 ml tall form without spout)	285228020	TW 7200-18
Basic unit TW 7200 with sample rack TZ 4024 for 24 samples, without beakers, incl. titration head TZ 1469, power supply 100- 240 V. Suitable beakers are 50 ml TZ 1783 / 75 ml TZ 1786	285228030	TW 7200-24
Basic unit TW 7200 with sample rack TZ 4040 for 24 CSB-samples according to DIN 38 409, without vessels, incl. Titration head TZ 1461, redox electrode Pt 5901, rod stirrer TZ 1846, titration tip TZ 1648, power supply 100- 240 V	285228040	TW 7200-COD
Basic unit TW 7200 with sample rack TZ 4016 for 16 samples, without beakers, incl. titration head TZ 1467, rinsing pump MP 25, power supply 100-240 V. Suitable beakers are 150 ml TZ 1784, TZ 1788 or 250 ml TZ 1787, TZ 1780	285228050	TW 7200-16-MP
Complete sample change set consists of TL 7000-M2-20, sampler changer TW 7200-16 and 2 x beaker sets TZ 1784, adapter TZ 1520 and titration tube TZ 3415; incl. Software TitriSoft	285228060	TL 7000 TW 7200 16 Set
Complete sample change set consists of TL 7000-M2-20, sampler changer TW 7200-24 and 3 x beaker sets TZ 1783, titration tip TZ 1646 and titration tube TZ 3415; incl. Software TitriSoft	285228070	TL 7000 TW 7200 24 Set



## Sample trays for Titration

Description	Order.no.	TypeNo
Sample tray for TW 7200, for 12 sample vessels, incl. 20 beakers, 250 ml, low form	285228080	TZ 4012
Sample tray for TW 7200, for 16 sample vessels without beakers. Suitable beakers are 150 ml TZ 1784, TZ 1788 or 250 ml TZ 1787, TZ 1780.	285228090	TZ 4016
Sample tray for TW 7200, for 18 sample vessels without beakers. Suitable beakers are TZ 1765 (100 ml tall form without spout)	285228100	TZ 4018
Sample tray for TW 7200, for 24 sample vessels without beakers. Suitable beakers are 50 ml TZ 1783 / 75 ml TZ 1786	285228110	TZ 4024
Sample tray for TW 7200, double-row for 25 sample vessels, without beakers. Suitable beakers are 150 ml TZ 1784, TZ 1788 or 250 ml TZ 1787, TZ 1780	285228120	TZ 4025
Sample tray for TW 7200, double-row for 28 sample vessels, without beakers. Suitable beakers are TZ 1765 (100 ml tall form without spout)	285228130	TZ 4028
Sample tray for TW 7200, double-row for 38 sample vessels, without beakers. Suitable beakers are 50 ml TZ 1783 / 75 ml TZ 1786	285228150	TZ 4038
Sample tray for TW 7200, for 24 COD vessels according to DIN 38 409, without vessels	285228160	TZ 4040
Sample tray for TW 7200, for 12 sample vessels, incl. 20 beakers 600 ml, tall form	285228180	TZ 4053

**Most of the sample trays are delivered now without beakers**



**Fig. 6:** Sample tray TZ 4038. Suitable beakers see below

## Beakers/vessels available from Xylem Analytics Germany

<b>Beakers for sample tray for 16/25 samples</b>	<b>Order No. / TZ No.</b>
150 ml with spout, low form	285216747 / TZ 1784
150 ml with spout, low form, "Super Duty"	285202008 / TZ 1788
250 ml without spout, tall form	285201994 / TZ 1787
250 ml with spout, tall form, „Super Duty“	285226140 / TZ 1780

  

<b>Beakers for sample tray for with 18/25 samples</b>	<b>Order No. / TZ No.</b>
100 ml without spout, tall form	285202030 / TZ 1765

  

<b>Beakers for sample tray for with 24/38 samples</b>	<b>Order No. / TZ No</b>
50 ml without spout, tall form	1064720 / TZ 1783
50 ml plastic vessel (PP)	285226150 / TZ 3973
75 ml glass vessel without spout	285216756 / TZ 1786

### Important note:

For the control of the TW 7200 Titrisoft version 3.51 is required. TitrSoft 3.5 is currently released and version 3.51 will follow latest mid of March.

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