

Rotor program

Fixed-angle rotors

All products consist of aluminium (black anodised).

| Vessel | | | Rotor | | | |
|----------------|---|--|-------------------------|-----------------------|--|---|
| Nominal volume | Dimensions | Description Standard Features | Vessels per rotor | Rotors per unit | Part no. Configuration Setting angle (Reference: vertical) | |
| (ml) | Ø x length (mm) | | (pcs.) | (pcs.) | | |
| 1.0 | 5 – 5.5 x 100 (vessel) 12.5 x 80 (cover) | | 72 | | 112208¹⁾ adapter cover |  |
| 1.5 – 2.2 | 10.8 x 38 | Eppendorf basic rotor for 126300 | 72 | 1 + 2 | 124610 massive rotor 45° |  |
| 1.5 – 2.2 | 10.8 x 38 | Eppendorf extension rotor for 124610 | 72 | 2 max. | 126300 massive rotor 45° |  |
| 2.5 | 11 x 31 – 39 | basic rotor for 126305 | 54 | 1 + 2 | 124613²⁾ massive rotor 25° |  |
| 2.5 | 11 x 31 – 39 | extension rotor for 124613 | 54 | 2 max. | 126305 massive rotor 25° |  |
| 3.0 / 4.0 | 10 x 75 – 86 | with round or flat bottom | 72 | | 113312³⁾ adapter cover 20° | |

Rotor program

| Vessel | | | Rotor | | | |
|----------------|-----------------------|---|-------------------|-----------------|--|---|
| Nominal volume | Dimensions | Description Standard Features | Vessels per rotor | Rotors per unit | Part no. Configuration Setting angle (Reference: vertical) | |
| (ml) | Ø x length (mm) | | (pcs.) | (pcs.) | | |
| 5.0 | 16.4 x 57 | Eppendorf | 32 | 1 | 124635 massive rotor 38° | |
| 5.0 | 26.5 – 28 x 54.9 – 85 | | 36 | 1 | 124636 disc rotor 25° | |
| 5.0 | 15.5 – 16.7 x 47 – 59 | with round or flat bottom basic rotor for 126304 | 36 | 1 + 2 | 124620 massive rotor 30° |  |
| 5.0 | 15.5 – 16.7 x 47 – 59 | with round or flat bottom extension rotor for 124620 | 36 | 2 max. | 126304 massive rotor 30° |  |
| 5.0 | 15 x 50 | with flat bottom basic rotor for 126303 | 72 | 1 + 1 | 124634²⁾ disc rotor 30° | |
| 5.0 | 15 x 50 | with flat bottom extension rotor for 124634 | 72 | 1 max. | 126303 disc rotor 30° |  |
| 5.0 | 14.5 – 15.5 x 45 – 51 | basic rotor for 126308 | 40 | 1 + 2 | 124631 massive rotor 30° |  |

| Vessel | | | Rotor | | | |
|----------------|-------------------------|---|-------------------------|-----------------------|--|---|
| Nominal volume | Dimensions | Description Standard Features | Vessels per rotor | Rotors per unit | Part no. Configuration Setting angle (Reference: vertical) | |
| (ml) | Ø x length (mm) | | (pcs.) | (pcs.) | | |
| 5.0 | 14.5 – 15.5 x 45 – 51 | extension rotor for 124631 | 40 | 2 max. | 126308 massive rotor 30° |  |
| 5.0 | 12.5 – 13.8 x 70.4 – 86 | with round bottom, e.g. Sarstedt centrifuge tubes basic rotor for 126311 | 72 | 1 + 1 | 124627 disc rotor 20° | |
| 5.0 | 12.5 – 13.8 x 70.4 – 86 | with round bottom, e.g. Sarstedt centrifuge tubes extension rotor for 124627 | 72 | 1 max. | 126311 disc rotor 20° | |
| 5.0 / 9.0 | 12 – 13 x 75– 100 | with round bottom basic rotor for 126306 | 72 | 1 + 1 | 124614 disc rotor 30° | |
| 5.0 / 9.0 | 12 – 13 x 75 – 100 | with round bottom extension rotor for 124614 | 72 | max. 1 | 126306 disc rotor 30° |  |
| 8.0 / 10.0 | 12 – 13 x 100 - 120 | with round bottom | 54 | 1 | 124612²⁾ disc rotor 25° | |
| 8.0 / 10.0 | 16 – 16.5 x 100 - 125 | with round bottom, Falcon | 48 | 1 | 124616 disc rotor 20° |  |

Rotor program

| Vessel | | | Rotor | | | |
|----------------------|--|---|-------------------------|-----------------------|--|---|
| Nominal volume | Dimensions | Description Standard Features | Vessels per rotor | Rotors per unit | Part no. Configuration Setting angle (Reference: vertical) | |
| (ml) | Ø x length (mm) | | (pcs.) | (pcs.) | | |
| 10.0 | 16 – 17 x 65 – 100 | basic rotor for 126302 | 48 | 1 + 1 | 124617 disc rotor 30° | |
| 10.0 | 16 – 17 x 65 – 100 | extension rotor for 124617 | 48 | max. 1 | 126302 disc rotor 30° |  |
| 10.0 | 22.5 – 24 x 41 – 45 | bottle, ISO 8362- 1 10R basic rotor for 126309 | 27 | 1 + 2 | 124632 massive rotor 25° | |
| 10.0 | 22.5 – 24 x 41 – 45 | bottle, ISO 8362- 1 10R extension rotor for 124632 | 27 | max. 2 | 126309 massive rotor 25° | |
| 10,0 | 26,5 – 28 x 80 – 109 | | 32 | 1 | 124638³⁾ disc rotor 20° | |
| 10.0 12.0 15.0 | 16 – 16.5 x 80 – 125 | with round bottom, Falcon | 48 | 1 | 124621 disc rotor 20° | |
| 13.0 | 15.2 x 100 (vessel) 18 x 85 (cover) | | 48 | -- | 110516⁴⁾ adapter cover 20° |  |
| 13.0 | 17 – 18 x 100 – 125 | | 48 | 1 | 124618 disc rotor 20° | |
| 15.0 | 15 – 16 x 125 – 160 | with round bottom | 36 | -- | 112313⁵⁾ adapter cover | |

| Vessel | | | Rotor | | |
|----------------|--|-------------------------------------|-------------------------|--------------------|--|
| Nominal volume | Dimensions | Description Standard Features | Vessels per rotor | Rotors per unit | Part no. Configuration Setting angle (Reference: vertical) |
| (ml) | Ø x length (mm) | | (pcs.) | (pcs.) | |
| 15.0 | 17.9 – 19 x 97 – 125 | with round bottom | 48 | 1 | 124622 disc rotor 20° |
| 20.0 / 25.0 | 18 – 19.5 x 110 – 140 | with round bottom | 36 | 1 | 124619 disc rotor 20° |
| 21.0 | 15.6 – 16.5 x 104.3 – 162.5 | with round bottom | 48 | 1 | 112357 disc rotor 20° |
| 22.0 | 19.1 – 20.1 x 66 – 87 (vessel) 26.5 x 62 (cover) | with flat bottom and throat | 36 | 2 | 112478⁶⁾ adapter cover |
| 25.0 | 23.8 – 25 x 62 – 90 | basic rotor for 112421 | 36 | 1 + 1 | 112420 disc rotor 30° |
| 25.0 | 23.8 – 25 x 62 – 90 | extension rotor for 112420 | 36 | max. 1 | 112421 disc rotor 30° |
| 30.0 | 18 x 180 (Gefäß) 21.5 x 146 (Hülse) | with round bottom | 24 | 1 | 112210⁷⁾ Adapterhülse |
| 30.0 | 24 – 25 x 95 – 120 | | 36 | 1 | 124625 disc rotor 25° |
| 30.0 / 40.0 | 21.5 x 150 – 180 | | 24 | 1 | 124623²⁾ disc rotor 20° |
| 50.0 | 24 – 24.5 x 120 – 160 | | 24 | 1 | 124624 disc rotor 18° |

Rotor program

| Vessel | | | Rotor | | | |
|----------------|--------------------------------|-------------------------------------|-------------------------|-----------------------|--|---|
| Nominal volume | Dimensions | Description Standard Features | Vessels per rotor | Rotors per unit | Part no. Configuration Setting angle (Reference: vertical) | |
| (ml) | Ø x length (mm) | | (pcs.) | (pcs.) | | |
| 50.0 | 29.5 – 30 x 115 – 120 | | 24 | 1 | 124630 disc rotor 25° | |
| 50.0 | 27.7 – 29.1 x 100 – 120 | Falcon | 18 | 1 | 124629 disc rotor 23° |  |
| 50.0 | 32.8 – 34.5 x 100 – 120 | with round bottom | 16 | 1 | 124626 disc rotor 23° | |
| 55.0 | 24.1 – 25.3 x 105 – 166.4 | with round bottom | 24 | 1 | 112358 disc rotor 18° |  |
| 55.0 / 80.0 | 28 – 30 x 120 – 150 | with round bottom | 24 | 1 | 124628 disc rotor 20° |  |
| 70.0 | 24.1 – 25.3 x 143.9 – 203.8 | with round bottom | 20 | 1 | 112359 disc rotor 18° |  |
| 70.0 | 44 – 45 x 120 – 140 | (Falcon) | 12 | 1 | 124647 disc rotor 20° | |

| Vessel | | | Rotor | | | |
|----------------|-----------------------|---------------------------------------|-------------------------|-----------------------|--|---|
| Nominal volume | Dimensions | Description Standard Features | Vessels per rotor | Rotors per unit | Part no. Configuration Setting angle (Reference: vertical) | |
| (ml) | Ø x length (mm) | | (pcs.) | (pcs.) | | |
| 100 | 44 – 45 x 100 – 120 | with round bottom | 12 | 1 | 124645 disc rotor 23° |  |
| 150 | 58.6 – 61 x 110 – 120 | with flat bottom, Falcon | 8 | 1 | 124644 disc rotor 20° | |
| 175 | 61.5 x 139 | | 6 | 1 | 112442²⁾⁸⁾ adapter cover 20° | |
| 250 | 68.2 – 71 x 137 – 139 | Wheaton Lab Media Bottle 219927 | 6 | 1 | 124606 massive rotor 18° | |

¹⁾ only in conjunction with disc rotors, part no. 124614 and 126306

²⁾ delivery time on request, subject to technical modifications

³⁾ only in conjunction with disc rotors, part no. 124627 and 126311

⁴⁾ only in conjunction with disc rotors, part no. 124622 and 124618

⁵⁾ only in conjunction with disc rotor, part no. 124619

⁶⁾ only in conjunction with disc rotors, part no. 112420 and 112421

⁷⁾ only in conjunction with disc rotor, part no. 124623

⁸⁾ only in conjunction with disc rotor, part no. 112441

Rotor program

Swing-out rotors and accessories



WARNUNG

The balance point of the loaded bucket must be located considerably below the pivotal point !

All products consist of aluminium (black anodised).

| Plate | | Rotor type and accessories | | |
|------------------------------|--|------------------------------------|-------------------------------------|---|
| Type | Dimensions B x T x H (mm) | No. of plates per rotor (piece) | No. of plates per device (piece) | Part no. Configuration |
| | | | | <p>124511</p> <p>Basic rotor with triple TMM Swing-out rotor for microtiter plates (MTP) assay plates (AP) deepwell plates (DWP) and massive bucket (MAB) with microtiter plate footprint</p> |
| MTP or AP or DWP | max. 86.5 x 128.5 x 15.9 max. 86.5 x 128.5 x 25.9 max. 86.5 x 128.5 x 60.0 | | 3 2 1 | <p>124701</p> <p>Carrier with integrated temperature sensor, without bottom window, suitable in rotor Nr. 124700 with carrier no. 124708; carrier plates no. 124704 and 124705 required</p> |
| MTP or AP or DWP | max. 86.5 x 128.5 x 15.9 max. 86.5 x 128.5 x 25.9 max. 86.5 x 128.5 x 60.0 | | 3 2 1 | <p>124708</p> <p>Carrier without temperature sensor, without bottom window, suitable in rotor Nr. 124700 with carrier no. 124701; carrier plates no. 124704 and 124705 required</p> |
| | | | 2 | <p>124704</p> <p>Carrier plate with distance pieces, red, height 6 mm, suitable for carrier no. 124701 and 124708</p> |
| | | | 2 | <p>124705</p> <p>Carrier plate with distance pieces, blue, height 16 mm, suitable for carrier no. 124701 and 124708</p> |

| Plate | | Rotor type and accessories | | | |
|------------------|--|------------------------------------|-------------------------------------|---|--|
| Type | Dimensions B x T x H (mm) | No. of plates per rotor (piece) | No. of plates per device (piece) | Part no. Configuration | |
| MAB | max. 86.5 x 128.5 x 60.0 | | 1 | 124703 Carrier with integrated temperature sensor, without bottom window, suitable for rotor no. 124700 with carrier no. 124706 | |
| MAB | max. 86.5 x 128.5 x 60.0 | | 1 | 124706 Carrier without temperature sensor, without bottom window, suitable for rotor no. 124700 with carrier no. 124703 | |
| | | 4 | 40 | 112290 Massive bucket, with thicker rim and pedestal, for vessels \varnothing 10,2 x 45,5 mm, suitable for 124703 and 124706 | |
| DWP | max. 86.5 x 128.5 x 60.0 | | 1 | 124711¹⁾ Carrier with integrated temperature sensor, with bottom window, suitable for rotor no. 124700 with carrier no. 124707 | |
| DWP or MAB | max. 86.5 x 128.5 x 60.0 max. 86.5 x 128.5 x 60.0 | | 1 1 | 124707 Carrier without temperature sensor, with bottom window, suitable for rotor no. 124700 with carrier no. 124711 and 124702 | |
| MAB | max. 86.5 x 128.5 x 60.0 | | 1 | 124702 Carrier with integrated temperature sensor, with bottom window, suitable for rotor no. 124700 with carrier no. 124702 The temperature sensor is positioned at the location hole of the massive bucket | |

Rotor program

| Plate | | Rotor type and accessories | | | |
|------------------------------|--|------------------------------------|-------------------------------------|--|--|
| Type | Dimensions B x T x H (mm) | No. of plates per rotor (piece) | No. of plates per device (piece) | Part no. Configuration | |
| | | 4 | 48 | 110535 Massive bucket, for vessels Ø 11.0-11.7 x 28.0-33.0 mm, suitable for 124702 and 124707 | |
| | | 4 | 35 | 113309 Frame, for vessels Ø 12.0-12.8 x 53.2-64.2 mm, suitable for 124702 and 124707 | |
| MTP or AP or DWP | max. 86.5 x 128.5 x 15.9 max. 86.5 x 128.5 x 25.9 max. 86.5 x 128.5 x 60.0 | 12 8 4 | 3 2 1 | 126350 1 Set, consisting of 2 carriers no. 124701, 2 carriers no. 124708, 4 carrier plates no. 124704, 4 carrier plates no. 124705, 1 sample temperature sensor no. 124764 | |
| MAB | max. 86.5 x 128.5 x 60.0 | 4 | 1 | 126351 1 Set, consisting of 2 carriers no. 124703, 2 carriers no. 124706, 1 sample temperature sensor no. 124764 | |
| MAB | max. 86.5 x 128.5 x 60.0 | 4 | 1 | 126352 1 Set, consisting of 2 carriers no. 124702, 2 carriers no. 124707, 1 sample temperature sensor no. 124764 | |
| DWP | max. 86.5 x 128.5 x 60.0 | 4 | 1 | 126353¹⁾ 1 Set, consisting of 2 carriers no. 124711, 2 carriers no. 124707, 1 sample temperature sensor no. 124764 | |

¹⁾ special design, on request, subject to technical modifications

All products consist of aluminium (black anodised).

| Vessel | | Rotor and accessories | | | |
|----------------|--|-----------------------|-----------------|---------------|---|
| Nominal volume | Description | Vessels per rotor | Rotors per unit | Part no. | Configuration |
| (ml) | Ø x length (mm) | (piece) | (piece) | | |
| 500 | round bottom flask | 4 | 1 | 124660 | Basic rotor with triple-TMM Swing-out rotor for round bottom flasks, 500 ml, for 4 carriers 112433, 112440, 124664, 124665, 124667 |
| | | | 1 | 124667 | |
| | | | | | Adapter cover Centre-cover 124664 or 124665 required |
| 500 | round bottom flask EN ISO 4797 each, with inner grinding 29/32 | | 1 | 124664 | Centre cover, complete, with temperature sensor, to accommodate one round bottom flask, adapter cover 124667 required, suitable for 124665 |
| 500 | round bottom flask EN ISO 4797 each, with inner grinding 29/32 | | 1 | 124665 | Centre cover, complete, without temperature sensor, to accommodate one round bottom flask, adapter cover 124667 required, suitable for 124664 |
| 5 13 | 15.0 x 48.0 23.0 x 48.0 | 32 36 | 1 | 112433 | Combined bucket, with temperature sensor, to accommodate 8 vessels of 5 ml and 9 vessels of 13 ml, suitable for 112440 |
| | | | | | |
| 5 13 | 15.0 x 48.0 23.0 x 48.0 | 32 36 | 1 | 112440 | Combined bucket, with temperature sensor, to accommodate 8 vessels of 5 ml and 9 vessels of 13 ml, suitable for 112433 |

Rotor program

| Vessel | | Rotor and accessories | | |
|----------------|-----------------|-----------------------|-----------------|---|
| Nominal volume | Description | Vessels per rotor | Rotors per unit | Part no. Configuration |
| (ml) | Ø x length (mm) | (piece) | (piece) | |
| | | | 1 | <p>124670</p> <p>1 Set, consisting of 4 adapter covers no. 124667, 2 centre-covers no. 124664, 2 centre-covers no. 124665 1 sample temperature sensor no. 124764</p> <p><u>NOTE:</u> Use a round bottom flask with splinter protection coating (part no 127361)</p> |
| | | | 1 | <p>124671</p> <p>1 Set, consisting of 2 combined buckets no. 112433, 2 combined buckets no. 112440, 1 sample temperature sensor no. 124764</p> |

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| Vessel | | Rotor and accessories | | | |
|----------------|--------------------|-----------------------|-----------------|---|--|
| Nominal volume | Description | Vessels per rotor | Rotors per unit | Part no. | |
| (ml) | Ø x length (mm) | (piece) | (piece) | Configuration | |
| | | 4 | 1 | 124640 Basic rotor with Triple-TMM Swing-out rotor, for 4 buckets 124641, 124642, 124649, 124650, 124651, 124652, 154653, 154654, 124655, 124656, 124657, 124658 | |
| 15.0 | Ø 16.2 mm x 114 mm | 16 | 1 | 124641 Bucket 4 x 15 ml without temperature sensor | |
| 15.0 | Ø 16.2 mm x 114 mm | 16 | 1 | 124642 Bucket 4 x 15 ml with integrated temperature sensor | |
| 5.0 | Ø 14.8 mm x 45 mm | 36 | 1 | 124649¹⁾ Bucket 9 x 5 ml without temperature sensor | |
| 5.0 | Ø 14.8 mm x 45 mm | 36 | 1 | 124650¹⁾ Bucket 9 x 5 ml with integrated temperature sensor | |
| 9.0 | Ø 13.0 mm x 100 mm | 44 | 1 | 124651¹⁾ Bucket 11 x 9 ml without temperature sensor | |
| 9.0 | Ø 13.0 mm x 100 mm | 44 | 1 | 124652¹⁾ Bucket 11 x 9 ml with integrated temperature sensor | |
| 12.0 | Ø 16.0 mm x 100 mm | 28 | 1 | 124653¹⁾ Bucket 7 x 12 ml without temperature sensor | |

Rotor program

| Vessel | | Rotor and accessories | | | |
|----------------|--------------------|-----------------------|-----------------|-----------------------------|---|
| Nominal volume | Description | Vessels per rotor | Rotors per unit | Part no. | |
| (ml) | Ø x length (mm) | (piece) | (piece) | Configuration | |
| 12.0 | Ø 16.0 mm x 100 mm | 28 | 1 | 124654 ¹⁾ | Bucket 7 x 12 ml with integrated temperature sensor |
| 13.5 | Ø 24.0 mm x 45 mm | 16 | 1 | 124655 ¹⁾ | Bucket 4 x 13,5 ml without temperature sensor |
| 13.5 | Ø 24.0 mm x 45 mm | 16 | 1 | 124656 ¹⁾ | Bucket 4 x 13,5 ml with integrated temperature sensor |
| 14.0 | Ø 22.0 mm x 55 mm | 16 | 1 | 124657 ¹⁾ | Bucket 4 x 14 ml without temperature sensor |
| 14.0 | Ø 22.0 mm x 55 mm | 16 | 1 | 124658 ¹⁾ | Bucket 4 x 14 ml with integrated temperature sensor |

¹⁾ special design, on request, subject to technical modifications

Sample temperature sensors (temperature sensor element teflon-bonded/ -capsuled)

| Description | Dimensions (length), features | Part no. |
|---------------------------------|-------------------------------|----------|
| Sample temperature sensor PT100 | 120 mm | 124750 |
| Sample temperature sensor PT100 | 140 mm | 124754 |
| Sample temperature sensor PT100 | 150 mm | 124756 |
| Sample temperature sensor PT100 | 160 mm | 124758 |
| Sample temperature sensor PT100 | 175 mm | 124761 |
| Sample temperature sensor PT100 | 190 mm | 124764 |
| Sample temperature sensor PT100 | 220 mm | 124770 |
| Sample temperature sensor PT100 | 280 mm | 124782 |
| Sample temperature sensor PT100 | 320 mm | 124837 |

Sample holder temperature sensors(temperature sensor element in stainless steel cover)

| Description | Dimensions (length), features | Part no. |
|--|--|----------|
| Sample holder temperature sensor PT100 | 150 mm, for combined bucket no.112433 | 124785 |
| Sample holder temperature sensor PT100 | 190 mm, marked, for carrier no.124702, 124703, 124711 | 124787 |
| Sample holder temperature sensor PT100 | 220 mm, marked, for carrier no. 124701 | 124790 |

Tools

| Description | Dimensions | Part no. |
|-------------------|------------|----------|
| Torx screw driver | TX 8 | 988034 |