

# Products general overview

- 01 Universal water and oil temperature control units up to 90°C/150°C
- 02 Water temperature control units up to 90°C
- 03 Pressurised water temperature control units up to 160°C
- 04 Oil temperature control units up to 360°C
- 05 Cooling units from -25°C up to +40°C



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# 01 Universal water and oil temperature control units up to 90°C/150°C

| Product                                      | Unit                 | TT-180      | TT-181      | TT-188      | TT-168 E   H |
|----------------------------------------------|----------------------|-------------|-------------|-------------|--------------|
| Temperature range                            |                      |             |             |             |              |
| Water                                        | °C                   | 90          | 90          | 90          | 90           |
| Oil                                          | °C                   | 150         | 150         | 150         | 150          |
| Heat transfer medium                         |                      | water/oil   | water/oil   | water/oil   | water/oil    |
| Filling amount max.                          | l                    | 7           | 7           | 7           | 20           |
| Heating capacity                             |                      |             |             |             |              |
| Water                                        | kW                   | 9           | 9           | 9           | 12           |
| Oil                                          | kW                   | 3           | 3           | 3           | 6            |
| Cooling system indirect                      |                      |             |             |             |              |
| Tubular heat exchanger                       | kW                   | 35          | 35          | 35          | 45           |
| at flow temperature                          | °C                   | 90          | 90          | 90          | 90           |
| Pump system see diagram                      |                      |             |             |             |              |
| Typ E: 60 l/min; max. 4.0 bar; motor 0.75 kW |                      | ●           | ●           | ●           | ●            |
| Typ H: 60 l/min; max. 7.0 bar; motor 1.50 kW |                      |             |             |             | ●            |
| Suction capacity vacuum                      | mWS                  | -           | 8           | 8           | 8            |
| Controller MP-888                            |                      |             |             |             |              |
| Temperature sensor                           |                      | FeKo Type J |             |             |              |
| Connections                                  |                      |             |             |             |              |
| Medium                                       |                      | 1/2" BS     | 1/2" BS     | 1/2" BS     | 1/2" BS      |
| Cooling water                                |                      | 3/8" BS     | 3/8" BS     | 3/8" BS     | 3/8" BS      |
| Dimensions incl. castors L×W×H               | mm                   | 670×260×650 | 670×260×650 | 670×260×650 | 710×325×785  |
| Weight empty approx.                         | kg                   | 55          | 55          | 55          | 67           |
| Colour                                       | silver grey RAL 7001 |             |             |             |              |

| Functions                              |  |   |   |   |   |
|----------------------------------------|--|---|---|---|---|
| Flow control                           |  | - | - | ● | ● |
| Leakstopper device                     |  | - | ● | ● | ● |
| Mould drain                            |  | - | ● | ● | ● |
| Temperature regulation at the consumer |  | - | - | - | ● |
| Time-limited water refill              |  | - | - | - | ● |
| Interface controller                   |  | - | - | ○ | ○ |
| Automatic refill                       |  | ● | ● | ● | ● |
| Level control                          |  | ● | ● | ● | ● |
| Visual fault indications               |  | ● | ● | ● | ● |
| Acoustic warning                       |  | ● | ● | ● | ● |
| Pressure regulation                    |  | - | - | - | - |

|   |          |   |          |   |              |
|---|----------|---|----------|---|--------------|
| ● | standard | ○ | optional | - | not possible |
|---|----------|---|----------|---|--------------|



## 02 Water temperature control units up to 90°C

| Product                                          | Unit                 | TT-170 L    | TT-168 E/A   H/A | TT168 E/PHE   H/PHE<br>TT168 E/A PHE   H/A PHE | TT-118 K          |
|--------------------------------------------------|----------------------|-------------|------------------|------------------------------------------------|-------------------|
| Temperature range                                | °C                   | 90          | 90               | 90                                             | 90                |
| Heat transfer medium                             |                      | water       | water            | water                                          | water             |
| Filling amount max.                              | l                    | 5           | 20               | 20                                             | 40                |
| Heating capacity                                 | kW                   | 3           | 18               | 12   18                                        | 18   27   36   45 |
| Cooling system                                   |                      | indirect    | indirect         | indirect                                       | indirect          |
| tubular heat exchanger                           | kW                   | 30          | 45               | 50                                             | 200               |
| Plate heat exchanger                             | kW                   |             |                  | 130                                            | 400               |
| Direct                                           | kW                   |             |                  |                                                |                   |
| at flow temperature                              | °C                   | 90          | 90               | 90                                             | 90                |
| Pump system see diagram                          |                      |             |                  |                                                |                   |
| Typ L: 19 l/min; max. 2.9 bar; motor 0.27 kW     |                      | ●           |                  |                                                |                   |
| Typ E: 60 l/min; max. 4.0 bar; motor 0.75 kW     |                      |             | ●                | ●                                              |                   |
| Typ H: 60 l/min; max. 7.0 bar; motor 1.50 kW     |                      |             | ●                | ●                                              |                   |
| Typ K: 200 l/min; max. 4.3 bar; motor 2.2 kW     |                      |             |                  |                                                | ●                 |
| Typ W: 250–350 l/min; max. 4.5 bar; motor 4.0 kW |                      |             |                  |                                                |                   |
| Typ V: 580 l/min; max. 4.1 bar; motor 7.5 kW     |                      |             |                  |                                                |                   |
| Suction capacity vacuum                          | mWS                  | -           | 8                | 8                                              | 8                 |
| Controller                                       | MP-888               |             |                  |                                                |                   |
| Temperature sensor                               | FeKo Type J          |             |                  |                                                |                   |
| Connections                                      |                      |             |                  |                                                |                   |
| Medium                                           |                      | 3/8" BS     | 1/2" BS          | 3/4" BS                                        | 1" BS             |
| Cooling water                                    |                      | 3/8" BS     | 3/8" BS          | 1" BS                                          | 1" BS             |
| Compressed air                                   |                      | -           |                  | -                                              | -                 |
| Dimensions incl. castors LxWxH                   | mm                   | 640x200x490 | 710x325x785      | 980x365x750                                    | 1240x480x1400     |
| Weight empty approx.                             | kg                   | 36          | 67               | 90                                             | 180               |
| Colour                                           | silver grey RAL 7001 |             |                  |                                                |                   |

| Functions                              |  |   |   |   |   |
|----------------------------------------|--|---|---|---|---|
| Flow control                           |  | - | ● | ● | ● |
| Leakstopper device                     |  | - | ● | ● | ● |
| Mould drain                            |  | - | ● | ● | - |
| Temperature regulation at the consumer |  | - | ● | ● | ● |
| Time-limited water refill              |  | - | ● | ● | ● |
| Interface controller                   |  | - | ○ | ○ | ○ |
| Automatic refill                       |  | ● | ● | ● | ● |
| Level control                          |  | ● | ● | ● | ● |
| Visual fault indications               |  | ● | ● | ● | ● |
| Acoustic warning                       |  | ● | ● | ● | ● |
| Pressure regulation                    |  | - | - | - | - |

|   |          |   |          |   |              |
|---|----------|---|----------|---|--------------|
| ● | standard | ○ | optional | - | not possible |
|---|----------|---|----------|---|--------------|

| TT-1548 E            | TT-108 E                      | TT-108 K                          | TT-1500 W        | TT-1368 W                        | TT-1368 V        |
|----------------------|-------------------------------|-----------------------------------|------------------|----------------------------------|------------------|
| 90                   | 90                            | 90                                | 90               | 90                               | 90               |
| water                | water                         | water                             | water            | water                            | water            |
| 20                   | 20                            | 40                                | 75               | 70/100                           | 100              |
| 12                   | 6   12   18                   | 18   27   36   45                 | 48               | 24   48   72   96                | 72   96   144    |
| air cooled           | direct                        | direct                            | direct           | indirect                         | indirect         |
| 5                    |                               |                                   |                  |                                  |                  |
|                      |                               |                                   |                  | 400                              | 400              |
|                      | 100                           | 260                               | 285              |                                  |                  |
| 70                   | 90                            | 90                                | 80               | 70                               | 80               |
|                      |                               |                                   |                  |                                  |                  |
|                      |                               |                                   |                  |                                  |                  |
| ●                    | ●                             |                                   |                  |                                  |                  |
|                      |                               |                                   |                  |                                  |                  |
|                      |                               | ●                                 |                  |                                  |                  |
|                      |                               |                                   | ●                | ●                                |                  |
|                      |                               |                                   |                  |                                  | ●                |
| 8                    | 8                             | 8                                 | -                | -                                | -                |
| MP-888               |                               |                                   |                  |                                  |                  |
| FeKo Type J          |                               |                                   |                  |                                  |                  |
| 3/4" BS              | 1/2" BS                       | 1" BS                             | flange DN32/PN16 | flange DN32/PN16                 | flange DN32/PN16 |
|                      | Inlet 3/8" BS<br>Outlet 1" BS | Inlet 1/2" BS<br>Outlet 1 1/2" BS | 1" BS            | 1 1/2" BS                        | 1 1/2" BS        |
| -                    | -                             | -                                 | 1/4" BS          |                                  | -                |
| 870×360×915          | 710×325×785                   | 1250×480×1400                     | 1600×800×1550    | 1710×790×1540/<br>2150×1300×1950 | 2150×130×1950    |
| 95                   | 67                            | 160                               | 430              | 520/850                          | 915              |
| silver grey RAL 7001 |                               |                                   |                  |                                  |                  |

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| ● | ● | ● | ● | ● | ● |
| ● | ● | ● | - | - | - |
| ● | ● | ● | ● | - | - |
| ● | ● | ● | - | - | - |
| - | - | - | - | - | - |
| ○ | ○ | ○ | ○ | ○ | ○ |
| - | ● | ● | ● | ● | ● |
| ● | ● | ● | ● | ● | ● |
| ● | ● | ● | ● | ● | ● |
| ● | ● | ● | ● | ● | ● |
| - | - | - | ○ | ○ | ○ |

## 03 Pressurised water temperature control units up to 160°C

| Product                                      | Unit                 | TT-1398 N   | TT-142 N    | TT-137 N          | TT-137 B/BP       |
|----------------------------------------------|----------------------|-------------|-------------|-------------------|-------------------|
| Temperature range                            | °C                   | 140         | 140         | 140               | 160               |
| Heat transfer medium                         |                      | water       | water       | water             | water             |
| Heating capacity                             | kW                   | 6           | 12          | 12                | 12                |
| Cooling system                               |                      | indirect    | indirect    | indirect + direct | indirect + direct |
| Tubular heat exchanger                       | kW                   | 20 @ 140°C  | 60 @ 140°C  | 65 @ 140°C        | 90 @ 160°C        |
| Plate heat exchanger                         | kW                   |             |             |                   |                   |
| Direct                                       | kW                   |             |             | 60 @ 50°C         | 60 @ 50°C         |
| Pump system see diagram                      |                      |             |             |                   |                   |
| Typ N: 110 l/min; max. 5.0 bar; motor 1.8 kW |                      | ●           | ●           | ●                 |                   |
| Typ B: 75 l/min; max. 6.5 bar; motor 1.8 kW  |                      |             |             |                   | ●                 |
| Typ P: 36 l/min; max. 5.0 bar; motor 1.1 kW  |                      |             |             |                   |                   |
| Typ W: 250 l/min; max. 4.5 bar; motor 4.0 kW |                      |             |             |                   |                   |
| with booster pump                            |                      | -           | -           | -                 | ●                 |
| Suction capacity vacuum                      | mWS                  | -           | 8           | 8                 | 8                 |
| Controller                                   | MP-888               |             |             |                   |                   |
| Temperature sensor                           | FeKo Type J          |             |             |                   |                   |
| Connections                                  |                      |             |             |                   |                   |
| Medium                                       |                      | 1/2" BS     | 3/4" BS     | 3/4" BS           | 3/4" BS           |
| Cooling water                                |                      | 3/8" BS     | 3/8" BS     | 3/8" BS           | 3/8" BS           |
| Compressed air                               |                      | -           | -           | 1/4" BS           | 1/4" BS           |
| Dimensions incl. castors L×W×H               | mm                   | 680×305×760 | 870×360×915 | 870×360×915       | 870×360×915       |
| Weight empty approx.                         | kg                   | 70          | 107         | 120               | 120               |
| Colour                                       | silver grey RAL 7001 |             |             |                   |                   |

| Functions                              |  |   |   |   |   |
|----------------------------------------|--|---|---|---|---|
| Flow control                           |  | ● | ● | ● | ● |
| Leakstopper device                     |  | - | - | ● | ● |
| Pressure relief                        |  | ● | ● | ● | ● |
| Mould drain by compressed air          |  | - | - | ● | ● |
| Temperature regulation at the consumer |  | - | - | ● | ● |
| Interface controller                   |  | ○ | ○ | ○ | ○ |
| Automatic refill                       |  | ● | ● | ● | ● |
| Level control                          |  | ● | ● | ● | ● |
| Visual fault indications               |  | ● | ● | ● | ● |
| Acoustic warning                       |  | ● | ● | ● | ● |

|   |          |   |          |   |              |
|---|----------|---|----------|---|--------------|
| ● | standard | ○ | optional | - | not possible |
|---|----------|---|----------|---|--------------|

| TT-138 N              | TT138 B/BP        | TT-DW160                | TT-1358 W     |
|-----------------------|-------------------|-------------------------|---------------|
| 140                   | 160               | 160                     | 130           |
| water                 | water             | water                   | water         |
| 18   24               | 18   24           | 9   18                  | 24   48       |
| indirect + direct     | indirect + direct | indirect                | indirect      |
| 85 @ 160°C            | 85 @ 160°C        |                         | 180 @ 130°C   |
|                       |                   | 40 @ 150°C              | 400 @ 70°C    |
| 60 @ 60°C             | 60 @ 60°C         |                         |               |
| ●                     |                   |                         |               |
|                       | ●                 |                         |               |
|                       |                   | ●                       |               |
|                       |                   |                         | ●             |
| -                     | ●                 | ●                       | -             |
| 8                     | 8                 | -                       | -             |
| MP-888<br>FeKo Type J |                   |                         |               |
|                       |                   |                         |               |
| 3/4" BS               | 3/4" BS           | 1/2" BS                 | flange DN32   |
| 1" BS                 | 1" BS             | 1/2" BS                 | 1 1/2" BS     |
| 1/4" BS               | 1/4" BS           | -                       | -             |
| 1240×480×1400         | 1240×480×1400     | 750×180×550/750×285×550 | 1710×790×1540 |
| 180                   | 180               | 55/67                   | 530           |
| silver grey RAL 7001  |                   |                         |               |

|   |   |   |   |
|---|---|---|---|
| ● | ● | ● | ● |
| ● | ● | - | - |
| ● | ● | ● | ● |
| ● | ● | - | - |
| ● | ● | - | - |
| ○ | ○ | ○ | ○ |
| ● | ● | ● | ● |
| ● | ● | ● | ● |
| ● | ● | ● | ● |
| ● | ● | ● | ● |

04 Oil temperature control units up to 360°C

| Product                                             | Unit                 | TT-248      | TT-288        | TT-OIL300    | TT-388        | TT-388        | TT-388        |
|-----------------------------------------------------|----------------------|-------------|---------------|--------------|---------------|---------------|---------------|
| Temperature range                                   | °C                   | 200         | 250           | 300          | 360           | 360           | 360           |
| Heat transfer medium                                |                      | oil         | oil           | oil          | oil           | oil           | oil           |
| Filling amount                                      | l                    | 8           | 9             | 9            | 15/21         | 27            | 70            |
| Expansion volume                                    | l                    | 6           | 11            | 17           | 16            | 36            | 36            |
| Heating capacity                                    | kW                   | 8           | 8             | 12           | 16   24       | 32            | 48            |
| Cooling system                                      | indirect             |             |               |              |               |               |               |
| Tubular heat exchanger                              | kW                   | 20          | 60            | 60           | 90            | 160           | 230           |
| Plate heat exchanger                                | kW                   |             |               |              |               |               |               |
| at flow temperature                                 | °C                   | 200         | 250           | 290          | 360           | 360           | 360           |
| Pump                                                |                      |             |               |              |               |               |               |
| Motor                                               | kW                   | 1.8         | 1.8           | 1.8          | 1.8           | 1.8           | 1.8           |
| Pump system see diagram                             |                      |             |               |              |               |               |               |
| Typ Z: axial face sealed<br>100 l/min; max. 5.5 bar |                      | ●           | ●             | ●            | ●             | ●             | ●             |
| Typ A: magnetic drive<br>100 l/min; max. 5.5 bar    |                      | -           | ○             | ○            | ○             | ○             | ○             |
| Typ X: 260 l/min; max. 4.0 bar                      |                      |             |               |              |               |               |               |
| Typ Y: 200–500 l/min; max. 4.0 bar                  |                      |             |               |              |               |               |               |
| Suction capacity vacuum                             | mWS                  | 8           | 8             | 8            | 8             | 8             | 8             |
| Controller                                          |                      | MP-888      | MP-888        | MP-888       | MP-888        | MP-888        | MP-888        |
| Temperature sensor                                  |                      | FeKo Type J | FeKo Type J   | FeKo Type J  | FeKo Type J   | FeKo Type J   | FeKo Type J   |
| Connections                                         |                      |             |               |              |               |               |               |
| Medium                                              |                      | 3/4" BS     | 3/4" BS       | 3/4" BS      | 3/4" BS       | 3/4" BS       | 1" BS         |
| Cooling water inlet                                 |                      | 1/2" BS     | 1" BS         | 3/4" BS      | 1" BS         | 1" BS         | 1" BS         |
| Cooling water outlet                                |                      | 1/2" BS     | 1" BS         | 3/4" BS      | 1" BS         | 1" BS         | 1" BS         |
| Water-glycol                                        |                      | -           | -             |              |               |               |               |
| Compressed air min.                                 | bar                  | -           | -             | -            | -             | -             | -             |
| Dimensions incl. castors LxWxH                      | mm                   | 880x360x920 | 1130x390x1070 | 1130x390x995 | 1240x480x1400 | 1240x480x1500 | 1240x720x1500 |
| Weight empty approx.                                | kg                   | 120         | 150           | 150          | 205/215       | 235           | 335           |
| Colour                                              | silver grey RAL 7001 |             |               |              |               |               |               |

| Functions                              |  |   |   |   |   |   |   |
|----------------------------------------|--|---|---|---|---|---|---|
| Flow control                           |  | ● | ● | ● | ● | ● | ● |
| Leakstopper device                     |  | ● | ● | ● | ● | ● | - |
| Mould drain                            |  | ● | ● | ● | ● | ● | - |
| Temperature regulation at the consumer |  | ● | ● | ● | ● | ● | - |
| Interface controller                   |  | - | ○ | ○ | ○ | ○ | ○ |
| Level control                          |  | ● | ● | ● | ● | ● | ● |
| Visual fault indications               |  | ● | ● | ● | ● | ● | ● |
| Acoustic warning                       |  | ● | ● | ● | ● | ● | ● |
| Pressure regulation                    |  | - | - | - | - | - | - |
| Double circuit version                 |  | - | ● | - | ● | - | - |

|   |          |   |          |   |              |
|---|----------|---|----------|---|--------------|
| ● | standard | ○ | optional | - | not possible |
|---|----------|---|----------|---|--------------|

| TT-390               | TT-508 X      | TT-510 X       | TT-708 Y        | TT-407 Z      | TT-409 Z      | TT-410 X         | TT-608 Z      |
|----------------------|---------------|----------------|-----------------|---------------|---------------|------------------|---------------|
| 360                  | 300           | 300            | 300             | 240           | 240           | 240              | 300           |
| oil                  | oil           | oil            | oil             | oil           | oil           | oil              | oil           |
| 15/21                | 75            | 125            | 100   200   200 | 11            | 60            | 75               | 50 + 50       |
| 16                   | 75            | 100            | 100             | 16            | 36            | 75               | 75            |
| 16   24              | 48            | 96             | 72   120   144  | 8             | 24            | 48               | 24   48       |
| indirect             |               |                |                 |               |               |                  |               |
| 90                   | 480           | 480            | 600             | 67            | 93            | 150              |               |
|                      |               |                |                 | 143           | 150           | 175              | 93            |
| 360                  | see diagram   | see diagram    | see diagram     | 230   80      | 230   80      | 230   80         | 90            |
|                      |               |                |                 |               |               |                  |               |
| 1.8                  | 4             | 4              | 7.5             | 1.8           | 1.8           | 4                | 1.8           |
|                      |               |                |                 |               |               |                  |               |
| ●                    |               |                |                 | ●             | ●             |                  | ●             |
| ○                    |               |                |                 |               |               |                  |               |
|                      | ●             | ●              |                 |               |               |                  |               |
|                      |               |                | ●               |               |               | ●                |               |
| 8                    | -             | -              |                 |               |               |                  |               |
| MP-888               | MP-888        | MP-888         | MP-888          | MP-988        | MP-988        | MP-988           | MP-888        |
| FeKo Type J          | FeKo Type J   | FeKo Type J    | FeKo Type J     | Pt-100        | Pt-100        | Pt-100           | FeKo Type J   |
|                      |               |                |                 |               |               |                  |               |
| 3/4" BS              | flange DN32   | flange DN32    | flange DN50     | 3/4" BS       | 1" BS         | flange DN32/PN16 | 3/4" BS       |
| 1" BS                | 1 1/2" BS     | 1 1/2" BS      | 1 1/2" BS       | 3/4" BS       | 3/4" BS       | 1 1/2" BS        | 3/4" BS       |
| 1" BS                | 1 1/2" BS     | 1 1/2" BS      | 1 1/2" BS       |               |               |                  |               |
|                      |               |                |                 | 3/4" BS       | 3/4" BS       | 1 1/2" BS        | -             |
| -                    | -             | -              | -               | 5             | 5             | 5                | 3             |
| 1240×480×1400        | 1710×790×1540 | 2150×1300×1950 | 2150×1300×1950  | 1140×480×1400 | 1380×720×1500 | 1710×790×1540    | 1710×790×1540 |
| 205/215              | 520           | 845            | 110 /127/1270   | 220           | 340           | 590              | 540           |
| silver grey RAL 7001 |               |                |                 |               |               |                  |               |
|                      |               |                |                 |               |               |                  |               |
| ●                    | ●             | ●              | ●               | ●             | ●             | ●                | ●             |
| ●                    | -             | -              | -               | -             | -             | -                | -             |
| ●                    | -             | -              | -               | -             | -             | -                | -             |
| ●                    | -             | -              | -               | ●             | ●             | ●                | -             |
| ○                    | ○             | ○              | ○               | ○             | ○             | ○                | -             |
| ●                    | ●             | ●              | ●               | ●             | ●             | ●                | ●             |
| ●                    | ●             | ●              | ●               | ●             | ●             | ●                | ●             |
| ●                    | ●             | ●              | ●               | ●             | ●             | ●                | ●             |
| -                    | ○             | ○              | ●               | ●             | ●             | ●                | -             |
| ●                    | -             | -              | -               | -             | -             | -                | -             |

05 Cooling units from -25°C up to +40°C

| Product                                 | Unit   | TT-5'500 E      | TT-14'500 H     | TT-28'500       | TT-29'800 WK    |
|-----------------------------------------|--------|-----------------|-----------------|-----------------|-----------------|
| Temperature range                       | °C     | +10°C bis +40°C | +10°C bis +40°C | +10°C bis +40°C | -25°C bis +25°C |
| Ambient temperatures                    | °C     | +45°C           | +45°C           | +45°C           | +45°C           |
| Refrigerating agent                     |        | R-134a          | R-134a          | R-134a          | R-404a          |
| Heating capacity                        | kW     | 5               | 6               | 9               | -               |
| Content water tank                      | l      | 25              | 50              | 150             | 170             |
| Cooling capacity nominal                | kW     | 5               | 14              | 28              | 54              |
| Pump system                             |        | E               | H               | CR5-7           | CR5-7           |
| Motor                                   | kW     | 0.75            | 1.5             | 1.1             | 1.5             |
| Pump pressure max.                      | bar    | 4.5             | 8.5             | 5               | 4.8             |
| Flow capacity max.                      | l/min. | 75              | 75              | 145             | 140             |
| Flow capacity internal max.             | l/min. |                 |                 |                 |                 |
| Compressor hermetically sealed          |        |                 |                 |                 |                 |
| Condenser                               |        |                 |                 |                 |                 |
| Air-cooled                              |        | ●               | ●               | ●               |                 |
| Water-cooled                            |        | -               | ○               | ○               | ●               |
| Air volume                              | m³/h   | 1'700           | 2'850           | 5'700           | -               |
| Power consumption heating/cooling model | kW     | 6/4             | 8/5             | 11.3/6          | -/15            |
| Controller                              |        | MP-888          | MP-888          | MP-888          | MP-888          |
| Temperature sensor                      |        | Pt-100          | Pt-100          | Pt-100          | Pt-100          |
| Connections                             |        |                 |                 |                 |                 |
| Flow                                    |        | 3/4" BS         | 3/4" BS         | 1" BS           | 1" BS           |
| Return flow                             |        | 3/4" BS         | 3/4" BS         | 1" BS           | 1" BS           |
| Automatic water refill                  |        | 3/8" BS         | 3/8" BS         | 3/8" BS         | 3/8" BS         |
| Drain                                   |        |                 | 3/8" BS         | 1/2" BS         | 1/2" BS         |
| Cooling water in only if water-cooled   |        |                 | 3/4" BS         | 3/4" BS         | 1" BS           |
| Cooling water out only if water-cooled  |        |                 | 3/4" BS         | 1" BS           | 1" BS           |
| Dimensions incl. castors L×W×H          | mm     | 950×365×740     | 950×660×1300    | 1100×790×1660   | 1100×790×1660   |
| Weight empty approx.                    | kg     | 115             | 190             | 330             | 390             |
| Colour silver grey RAL 7001             |        |                 |                 |                 |                 |
| Functions                               |        |                 |                 |                 |                 |
| Flow control                            |        | ●               | ●               | ●               | ●               |
| Interface controller                    |        | ○               | ○               | ○               | ○               |
| Version without tank                    |        | -               | ○               | ○               | -               |

|   |          |   |          |   |              |
|---|----------|---|----------|---|--------------|
| ● | standard | ○ | optional | - | not possible |
|---|----------|---|----------|---|--------------|

| TT-54'500            | TT-108'000      | TT-216'000      | TT-300'000      |
|----------------------|-----------------|-----------------|-----------------|
| +10°C bis +40°C      | +10°C bis +40°C | +10°C bis +40°C | +10°C bis +15°C |
| +45°C                | +45°C           | +45°C           | -               |
| R-134a               | R-134a          | R-134a          | -               |
| 12                   | -               | -               | -               |
| 250                  | 360             | 600             | -               |
| 54                   | 108             | 216             | 300             |
| CR10-6               | CR10-6          | CR15-4          | CR32-2          |
| 2.2                  | 2.2             | 4               | 3               |
| 6.2                  | 6/4             | 5/3.5           |                 |
| 250                  | 100/200         | 200/400         | 600             |
|                      | 200             | 500             | -               |
| hermetically sealed  |                 |                 | -               |
|                      |                 |                 |                 |
| ●                    | ●               | ●               | ●               |
| ○                    | ○               | ○               |                 |
| 8'000                | 2×8'000         | 4×8'000         | 4×8'000         |
| 18/14                | -/35            | -/66            | 6.8             |
| Mp-888               | Mp-888          | MP-888          | ○               |
| Pt-100               | Pt-100          | Pt-100          | Pt-100          |
|                      |                 |                 |                 |
| 1 1/4" BS            | 1 1/2" BS       | 2" BS           | 3" BS           |
| 1 1/2" BS            | 2" BS           | 2" BS           | 3" BS           |
| 3/8" BS              | 3/8" BS         | 3/8" BS         | -               |
| 1" BS                | 1" BS           | 1" BS           | 1" BS           |
| 1" BS                | 1" BS           | 2" BS           | -               |
| 1" BS                | 1" BS           | 2" BS           | -               |
| 1350×1050×1950       | 2000×1300×2090  | 3350×1300×2090  | 3350×1900×2090  |
| 585                  | 1160            | 2040            | 1400            |
| silver grey RAL 7001 |                 |                 |                 |

|   |   |   |   |
|---|---|---|---|
| ● | - | - | - |
| ○ | ○ | ○ | ○ |
| ○ | ○ | ○ | - |