

# 300MD

The dual-zone temperature control unit for thermal oil up to 300 °C

- Control system RT200
- Heating capacity 24 kW (2 x 12 kW)
- Pump with high flow rate: 80 l/min
- Leak-free pump with magnetic coupling
- Electronic pressure display
- Solid-state relay instead of heating contactor



## Technical specifications

| Heat transfer medium | Outlet temperature | Heating capacity at 400V | Cooling capacity |        | Pump capacity/Type |          |        |
|----------------------|--------------------|--------------------------|------------------|--------|--------------------|----------|--------|
| Oil                  | 300 °C             | 12 kW                    | 280 °C           | 130 kW | FM32               | 80 l/min | 1.5 kW |
|                      |                    |                          |                  |        | FM35               | 85 l/min | 2.2 kW |

Technical data

|                                 |        |                     |      |
|---------------------------------|--------|---------------------|------|
| <b>Outlet temperature</b>       |        |                     |      |
| max.                            | °C     | 300                 |      |
| <b>Heat transfer medium</b>     |        | Oil                 |      |
| Filling quantity                | l      | 22.0                |      |
| Expansion volume                | l      | 14.0                |      |
| <b>Heating capacity at 400V</b> | kW     | 12                  |      |
| <b>Cooling capacity</b>         | kW     | 130                 |      |
| Cooler                          |        | 1K                  |      |
| at outlet temperature           | °C     | 280                 |      |
| at cooling water temperature    | °C     | 20                  |      |
| <b>Pump capacity/Type</b>       |        | FM32                | FM35 |
| Flow rate max.                  | l/min  | 80                  | 85   |
| Power consumption               | kW     | 1.5                 | 2.2  |
| Pressure max.                   | bar    | 7.5                 | 8.0  |
| <b>Control system</b>           |        | RT200               |      |
| <b>Operating voltage</b>        | V/Hz   | 400-480 V, 50/60 Hz |      |
| <b>Connections</b>              |        |                     |      |
| Outlet/Inlet                    |        | G3/4" IG            |      |
| Cooling water mains             |        | G3/4"               |      |
| <b>Degree of protection</b>     |        | IP54                |      |
| <b>Dimensions W/H/D</b>         | mm     | 407/1150/1349       |      |
| <b>Weight</b>                   | kg     | 235                 |      |
| <b>Color</b>                    | RAL    | 9006/7016           |      |
| <b>Ambient temperature</b>      |        |                     |      |
| max.                            | °C     | 40                  |      |
| <b>Noise level</b>              | db (A) | < 70                |      |

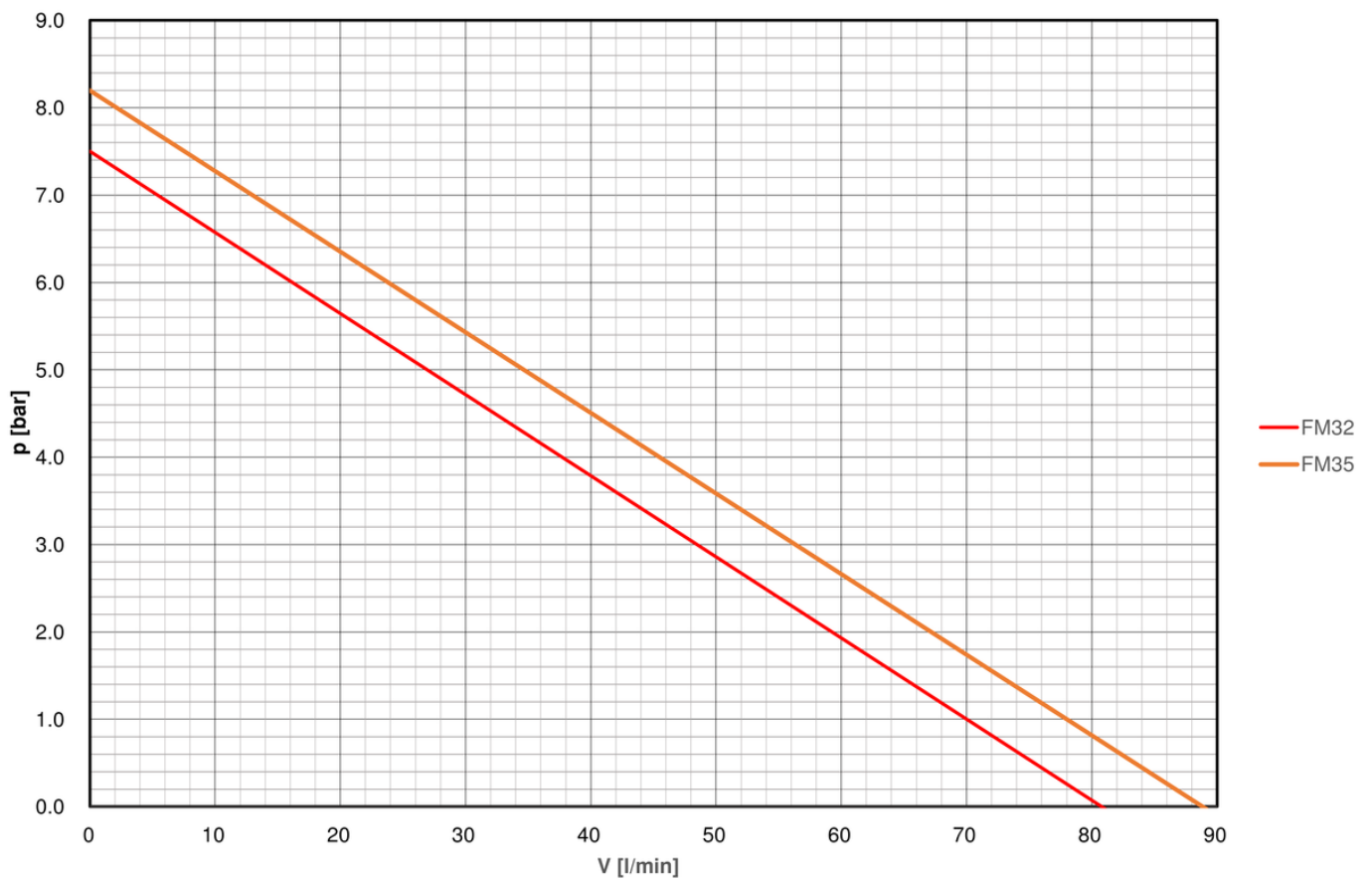
## Standard equipment

- Solid-state relay (SSR) instead of heating contactor
- Unit in IP54 protection degree
- Second level
- Leak-free pump
- Filter in the main circuit
- Filter in cooling water circuit
- Water circuit of non-rusting materials
- Outlet pressure sensor
- RT200 control system

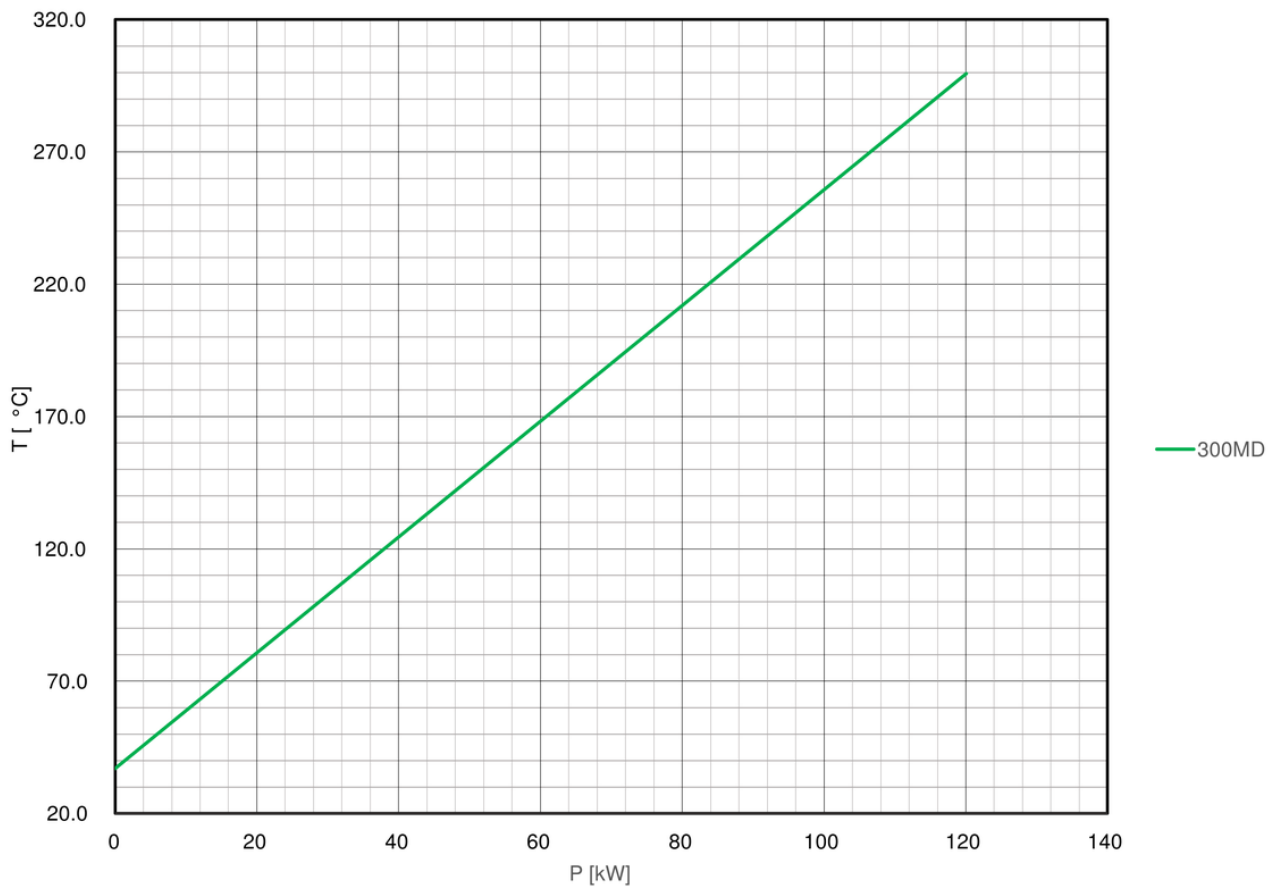
## Options

- Electronic flow measurement
- Optional with RT200 control system
- RT100 control system

## Pump curve



## Cooling curve



## Representation Switzerland

### Injection Molding, Die Casting, other Applications

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