



Technical Data Sheet

Control Module for Nitrogen up to 350 bar

RM350 Series

Main Features:

- RM350 basic unit has 2 or 4 valves and operates with high pressure (up to 350 Bar, 5000 psi) nitrogen gas supply
- RM350B1 includes air driven Maximator high pressure gas booster
- Core control packs include controls for hydraulic cores to operate overspill pins or valve gates. Options for signals only, or with integrated 4 or 8 valve hydraulic power pack.

Application:

The Control Modules of the RM350 Series are designed for the precise injection of nitrogen for Assisted Injection Molding processes up to 350 bar.

Because of the modular design of this Control Modules, the RM350 Series can be equipped with an air driven Maximator gas booster as an option. This allows the nitrogen supply from standard nitrogen gas bottles.

Furthermore, the Control Modules of the RM350 Series can be equipped with core control packs including controls for hydraulic cores to operate overspill pins or valve gates. This option is available as signals only or with integrated 2 or 4 valve hydraulic power pack.

Ordering information

RM350/ [/ /]

No of valves

2
4

No Core Controls

CS

Core control signals with interface for external hydraulic power pack

No gas booster

With gas booster

B1

C1

Internal hydraulic power pack for operation of 2 cores

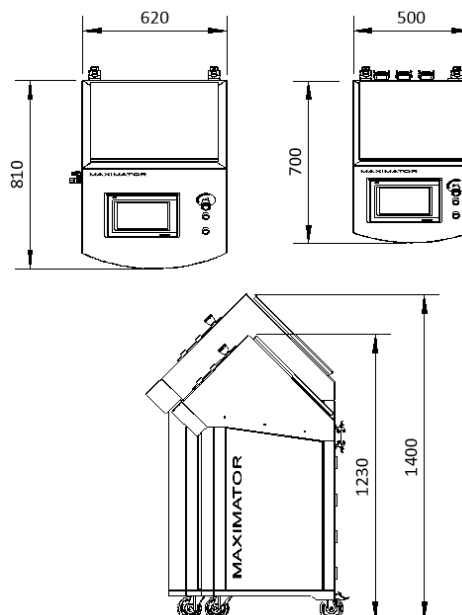
Internal hydraulic power pack for operation of 4 cores



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Technical Data

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|---------------------------------|---|
| Valves | Direct acting electromagnetic valves of proven design. Units supplied with 2 valves can be upgraded to 4 valves by purchasing valve upgrade sets. |
| Control system | <ul style="list-style-type: none"> High speed closed loop control, provided by 12 bit Industrial control system. Full color visualisation on 10.4" TFT screen with resistive touch panel. |
| Control functions | <ul style="list-style-type: none"> Up to 4 valves controlled independently, interfaced to two injection molding machine interfaces, allows unit to be operated with two molds at the same time. 5 phases of pressure control per cycle with adjustable ramp on increase and decrease of pressure. Programmed purge function. Alarm monitoring system and information screens. Hydraulic control functions with changeover capability and manual operation. |
| Booster (B1) | High duty cycle oil free Maximator gas booster with air drive as option. |
| Core signals (CS) | Additional control system hardware and 32 way interface to connect to external hydraulic power pack as option. |
| Hydraulic power packs (C2, C4) | Additional control system hardware and electrically driven hydraulic power pack (3 phase electric induction motor with overload protection, Gear pump, Oil tank, Pressure gauge, Bypass valve, 4 or 8 change-over valves for 2 or 4 cores) |
| Air inlet (B1 only) | G1/2 |
| N2 Inlet | G1/4 |
| N2 Outlet | 2 or 4 x G1/4 |
| Hydraulics (C2 or C4) | Quick release pairs G1/4 |
| Electrical power (not C2 or C4) | Single phase 110v/220v 50/60Hz Power cable provided |
| Electrical power (C2 or C4) | 3 phase 220v-575v 50/60Hz. Cable gland provided, power cable by customer |



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