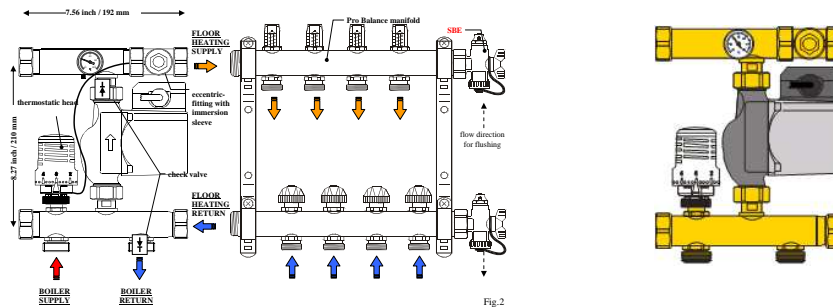


# PRODUCT SUBMITTAL 403

**Product:** PRO-BALANCE Mixing Module  
**Date:** 14-October-09 (supersedes, 18-April-08)



Article No.	Description
281501-001	PRO-BALANCE Mixing Module

### TECHNICAL DESCRIPTION

Maximum working temperature:	230° F (110° C)
Maximum acceptable working pressure:	145 psi (10 bar)
Temperature regulation range:	68 –158° F (20 - 70 °C)
Nominal heat output:	47.800 BTU /HR**
Pump:	Grundfos UPS 15-58-130 mm 1" BSPM connections. 3 Speed-Cast Iron. Integral Check Valve. 115 VAC, 2 Pole, Single Phase. Flow range: 0 - 17.5 U.S. GPM. Head range: 0 - 19 FEET
Min. fluid temperature:	36° F (2° C)
Fittings:	Brass Ms 58
Pipe systems:	Brass Ms 63
O-Rings:	EPDM
Flat gaskets:	AFM 34 or EPDM
Plastic:	Impact-resistant and temperature-resistant

\*\*For the achievement of the maximum heat output, the pressure in the boiler primary loop should be at minimum 2 psi / 150 mbar higher than the "secondary" floor heating circuit and the temperature of the primary should be 60 °F (33 °C) higher than the desired radiant design temperature.

### FUNCTIONAL DESCRIPTION

The REHAU PRO-BALANCE MIXING MODULE is intended for relatively small radiant heating applications using a fixed "set point" temperature supply. The module is designed to fit directly to the left or right of the REHAU PRO-BALANCE manifold.

The supply temperature to the manifold may be adjusted gradually between 68 F and 158 F, by means of temperature controlled injection valve. The injection valve has features that can limit the manual adjustment of the valve to prevent tampering and/or over-heating.

The module pump would be typically energized by the room thermostat via a relay. The relay could be energized by the thermostat or via the end of the actuator of one of the REHAU electronic boxes.

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