HYDRONIC HEATING

SOURCE . DESIGN . SUPPLY . INSTALL . SERVICE

Intaflo Hydronics is Australia's sole distributor of a range of hydronic heating and cooling components.

Hydronic heating and cooling has relaunched as the future of environmental comfort,
due to its energy efficiently and GREEN nature.
It is now being used as a cost friendly heating option in not only large commercial projects
but in residential housing.

Intaflo Hydronics has globally sourced high quality heating and cooling components especially designed to
assist in hydronic heating or cooling installations.

The Intaflo hydronics range includes;
Heat pump chillers, solar hydronic pumps, hydronics mixing stations, hydronics manifolds, flow meters,
flow safely monitors, actuators, ball valves, temperature monitors and more.

HEAT PUMPS . SOLAR . GAS . WOOD STOVE

Intaflo is a division of Comfort Heat Australia, suppliers of underfloor heating systems.
Intaflo's in house team of engineers can design, source and install all components to suit all
types of hydronic underfloor heating systems.

Intaflo Hydronic range is not only suitable for hydronic installations, and can be used in other projects that require
heat pump installations or flow indication.

INSLAB . INSCREED . UNDER TIMBER

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HEAT PUMP CHILLER

air to water heat pump for hydronic heating systems

The Intaflo heat pump is suitable for hydronic heating and cooling systems.

Robust and suitable for large areas the Intaflo heat pump can operate in low ambient conditions(-15°C) and give high COP in normal working conditions

The “V” coil construction gives a compact footprint, excellent airflow and heat transfer.

Packaged systems includes heat pump control, pump and heat exchanger.

FEATURES

- Vertical air flow with “V” style evaporator design
- Reverse cycle valve
- Wilo water pump (flow switch for water flow protection)
- Thermosatic expansion valve
- Thermosatic heating element for evaporator anti-frosting protection
- Automatic defrosting function included
- Air exchanger with hydrophilic coating
- New lattice LCD display wire controller, with touch screen
- Base and external panels manufactured from galvanized, powder coated steel

PERFORMANCE

Refrigerant:	R410a
Operating Range :	-15°C to 43°C

MODEL	HEAT CAPACITY	COP	COOL CAPACITY	EER	POWER SUPPLY	COMPRESSOR	SIZE
050(B) -V	15.0 KW	4.1	11.5 KW	2.88	240/150	Rotary*2	1095/815/1270
050S(B)-V	15.0 KW	4.1	11.5 KW	2.88	415/3/50	Scroll*1	1095/815/1270
060(B)-V	17.0 KW	4.0	13.5 KW	2.87	240/1/50	Rotary*2	1095/815/1270
060S(B)-V	17.0 KW	4.0	13.5 KW	2.87	415/3/50	Scroll*1	1095/815/1270
080(B)-V	25.0 KW	3.9	19.5 KW	2.83	240/1/50	Scroll*2	1570/815/1270
080S(B)-V	25.0 KW	3.9	19.5 KW	2.83	415/3/50	Scroll*2	1570/815/1270
100S(B)-V	30.0 KW	4.0	25.0 KW	2.87	415/3/50	Scroll*2	1570/815/1270
130S(B)-V	39.0 KW	4.0	32.0 KW	2.84	415/3/50	Scroll*2	1570/815/1270

HEATING AMBIENT TEMPERATURE : (DB/WB): 7°C/6°C, Water temp. (In/Out): 30°C/35°C
COOLING AMBIENT TEMPERATURE : (DB/WB): 35°C/24°C, Water temp. (In/Out): 12°C/7°C

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HYDRONIC MANIFOLD

modular manifold for hydronic heating systems

The Onda manifold is suitable for underfloor heating and cooling systems.

A modular manifold with thermostatic control complete with visual flow rate meter and manual shut-off function on the supply segment.

Fluid is distributed to the heating circuits with connections for plastic or multi-layer pipe up to 16mm.

The design of the modules allows for easy additions to the heater manifold with minimal increase in the water flow resistance.

FEATURES

- Anti-condensation
- Wide flow range
- Resistant to chemical agents, UV etc
- Extreamly low flow loss
- Visual flow regulator
- Temperature indicator
- Auto air bleed
- Modular construction

PERFORMANCE

Max percentage of glycol:	50%
Standard working pressure:	1.5/2.5 bar
Max working pressure:	4 bar
Test pressure:	3 bar
Temperature range:	-10/82 C
Manifold connection:	1 1/4" x 1.1/4"
Outlets connection(mm):	3/4"
Centers distance:	45mm

CODE	OUTLETS	DIMENTIONS L x D x H
HMK-2	2+2	190 x 95 x 400
HMK-3	3+3	235 x 95 x 400
HMK-4	4+4	280 x 95 x 400
HMK-5	5+5	325 x 95 x 400
HMK-6	6+6	370 x 95 x 400
HMK-7	7+7	415 x 95 x 400
HMK-8	8+8	460 x 95 x 400
HMK-9	9+9	505 x 95 x 400
HMK-10	10+10	550 x 95 x 400
HMK-11	11+11	595 x 95 x 400
HMK-12	12+12	640 x 95 x 400
HMK-13	13+13	685 x 95 x 400
HMK-14	14+14	730 x 95 x 400
HMK-15	15+15	775 x 95 x 400

ALSO AVAILABLE

- Mixing Manifold with pump
- Dual temperature manifold
- Manifold with by-pass

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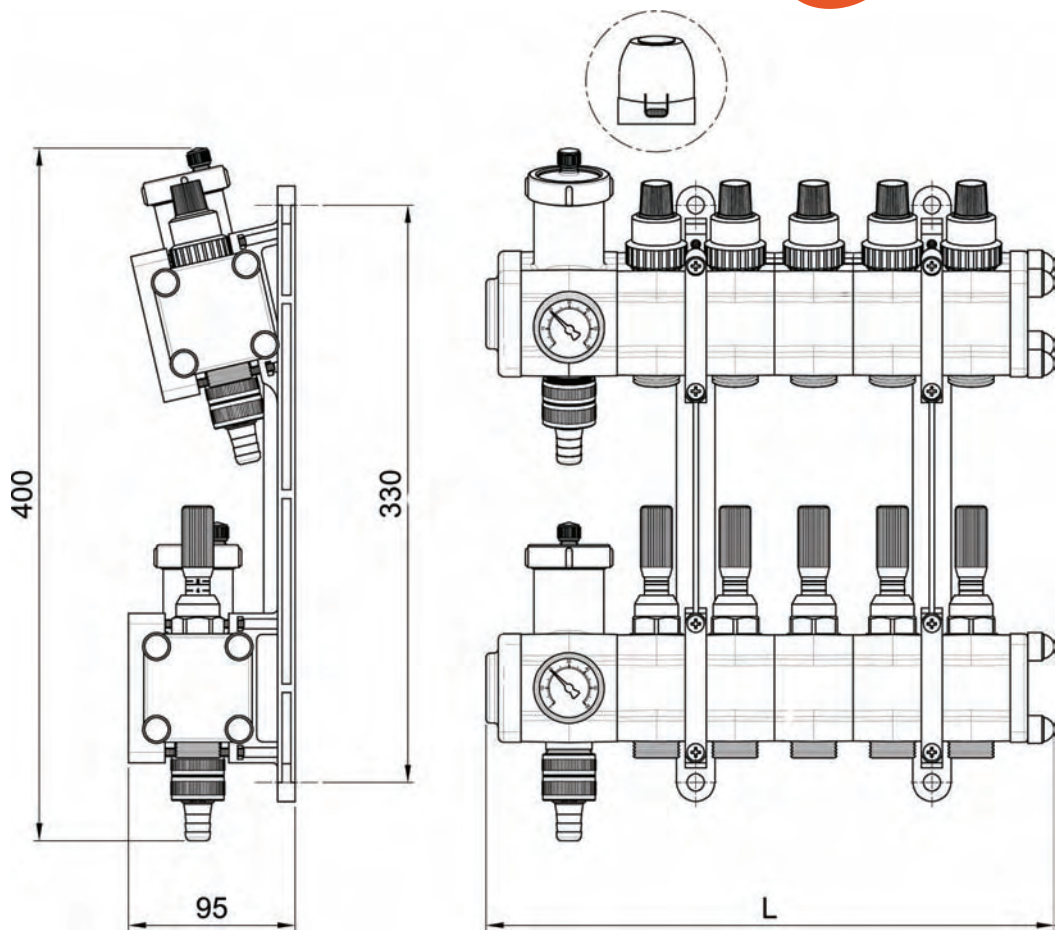
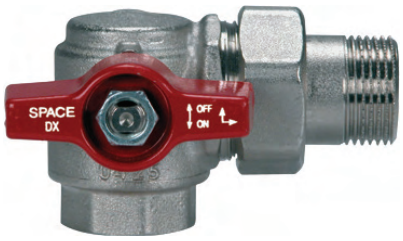


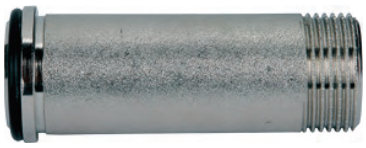
ACCESSORIES

accessories and add ons for modular manifold



RIGHT ANGLE BALL VALVE

Shut off valve for manifold.
Available : RH & LH
Colour : Red & Blue
Size : 1”



ANGLE BALL VALVE EXTENDER

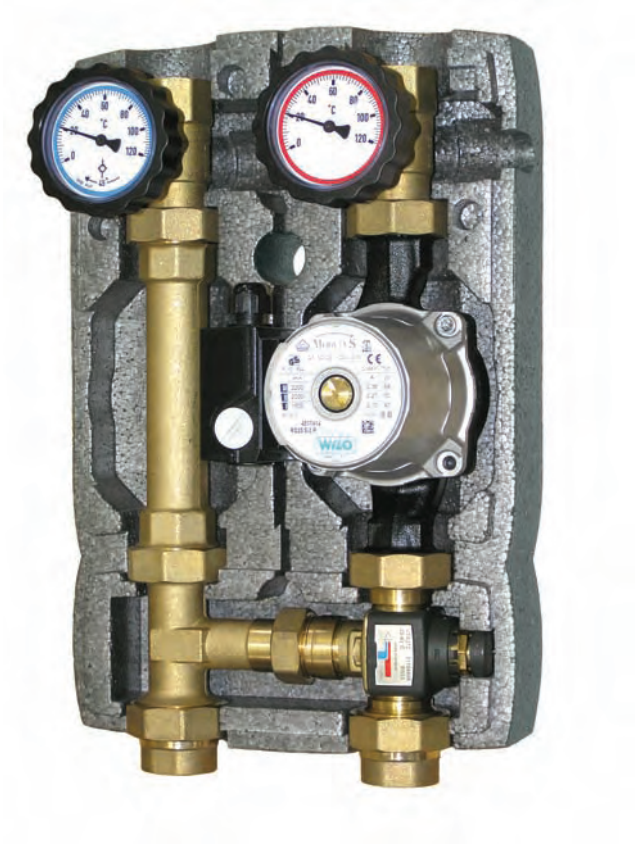
Length : 88mm
Size : 1”

ACTUATOR WITH END-SWITCH

240V
Current : 8mA
Power : 1.8W
Close/Open times : 3 min
Travel : 4mm
Profection : IP54 2) / II
Cable : 4 x 0.75 mm2 PVC
Length : grey / 1m

HYDRONIC PUMP/MIXING STATION

hydronic mixing pump for heating systems



The BRV heat pump is suitable for all hydronic heating and cooling systems.

A circulating pump with fixed mixing valve. Comes complete with isolation ball valve, temperature indication and ESP insulated cover.

The design and construction of the pump allows total temperature control.

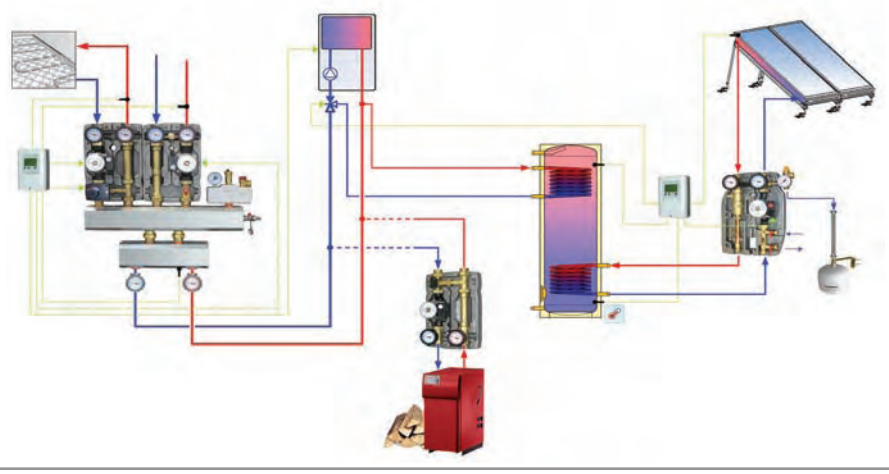
Other models available.

FEATURES

- Mixing valve: 3-way FIXED
- By-pass valve available
- Flanged ball valve
- Supply/Return temperature indicator
- Pump : Cast Iron
- Body : Brass

PERFORMANCE

Balance by-pass :	0-0 - 5bar
Max tem perature :	110°C
Thermometer range :	0°C - 120°C
Available connectors :	1" female
Centers distance :	125mm
Max flow :	1500 l/h
Max load :	35kW



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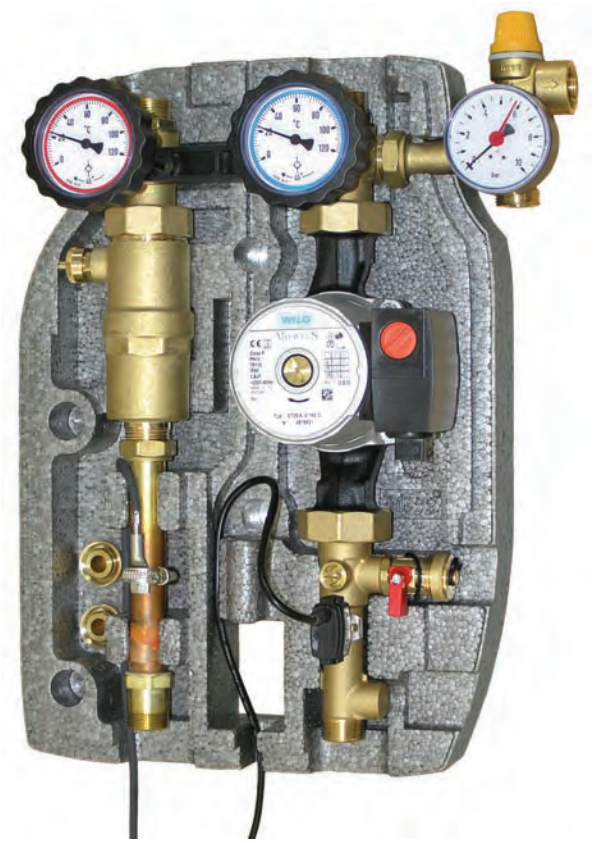
SOLAR PUMP/CONTROL STATION

hydronic control pump for solar heating systems



The BRV solar pump assembly is suitable for all solar heating systems.

A circulating pump with electronic meter. Comes complete with isolation ball valve, temperature indication and ESP insulated cover.

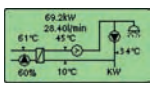
The design and construction of the pump allows total temperature control.

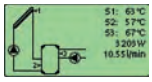
FEATURES

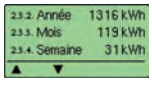
- Electronic flow regulator with filling and draining valves
- Flanged 3-way ball valve with non return valve
- Pressure Guage; Manometer 63 mm 0-10 bar with 3/4 Male connection to expansion tank
- Brass air vent with manual vent valve
- Solar electronic controller

PERFORMANCE

Measurement :	308 x 434 x 169
Return valve :	10 mbar
Thermometer range :	0°C - 120°C
Available connectors :	1” male
Centers distance :	125mm
Max flow :	2-12 l/min







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ACCESSORIES

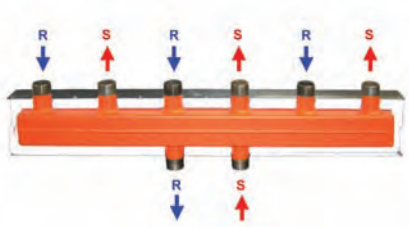
accessories and add ons

SYSTEM SAFETY UNIT

Safety unit includes;
Manometer : 4 bar
Auto air vent valve : 6 bar
Relief Valve : 3 bar
Body : Brass
EPS insulation 20mm

ACTUATOR

Bidirectional, reversible with
fixed limit switches.
Operating range : 90°C . 240V



DISTRIBUTOR

Distribution head with insulation
Suitable for up to 50kW
Max flow rate 2m3/h - Max.6 bar
Box Size : 110 x 110 mm
Center Distance : 125mm
Pump Connectors : 1" Male
Boiler Connector : 1" Male
Models to suit 2-6 units

FLANGED BALL VALVE

ON/OFF
Brass/Nickel plated
PN 40. Max.120°C.
Ends threaded to ISO 228
Provided with insulated T-handle
Size: 1"

FLANGED TEMPERATURE MONITOR

Flanged ball valve
Brass/Nickel plated
PN 40. Max.120°C.
Built-in check valve 20mbar
(with air vent device)
Max temperature 110°C
Coupling flange for 1" pumps
Female end threaded to ISO 228

FLOW METER

Minimal head loss
Max Temperature 120°C
DN15 Flow Range : 1-6 l/min kv 2
2-12 l/min kv 3
8-28 l/min kv 5
8-38 l/min kv 6
DN20 Flow Range: 5-42 l/min kv 10
20-70 l/min kv 13
Sizes : ¾" / 1" / 1¼" / 1½"

FLOOR HEATING PIPE

pipe for hydronic heating systems

The Rehau underfloor heating pipe is a flexible and impact resistant, cross-linked high-density polyethylene (PE-Xa) with a smooth bore design.

PE-Xa pipe offers quiet delivery minimizing water hammer and noise attributed to fluctuations in hydraulic pressure, perfect for the rugged conditions on work site.

A thermally stable system, PE-Xa pipe with oxygen barrier (acc. to DIN 4726) transforms the entire floor area into a warm low temperature radiant heater.

The REHAU compression sleeve connection eliminates leakages and system failures.

FEATURES

- Heating and cooling
- Suitable for both wet and dry construction
- Fittings are made from dezincification-resistance brass
- With oxygen barrier (acc to DIN 4726).
- Pipe is not suitable for potable water application

PERFORMANCE

Pipe dimension:	16mm
Thermal conductivity:	0.35 W/m.K
Roughness:	0.007 mm
Max. operating pressure:	10 bar
Max. temperature:	90°C

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