

HYDRO IN

Wall and ceiling built-in hydronic fancoil



Ideal for new dwellings.



Renovated
apartment



New
buildings



Shop
office



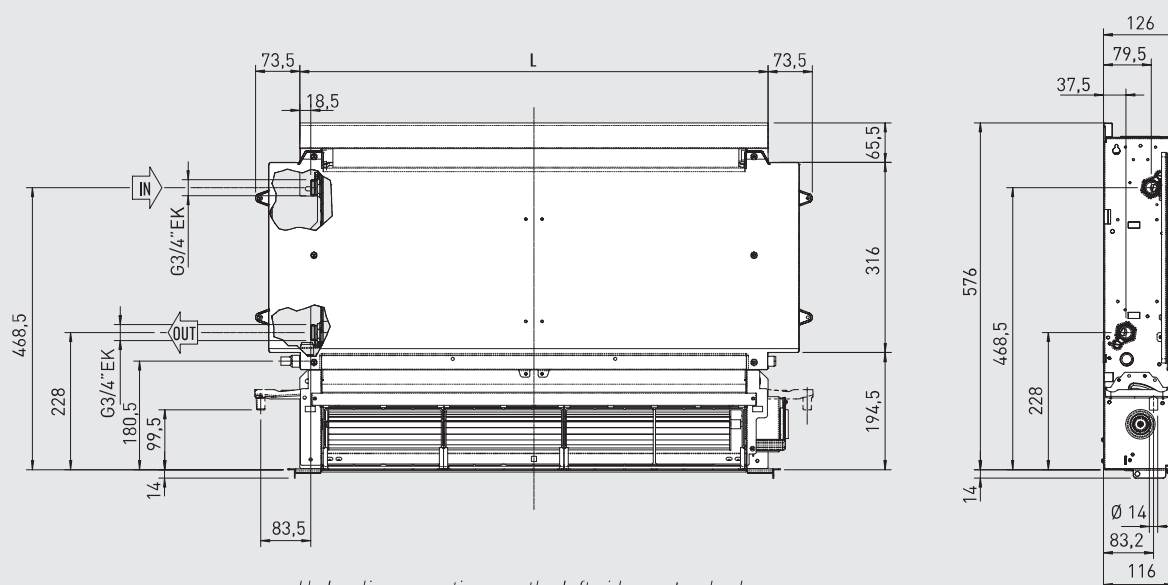
Public
administration



Hotel
Hospital
Shopping center

TECHNICAL FEATURES

- **Reduced aesthetic impact**
- **Flow and return connections on the left side** (with possibility of inversion to the right)
- **Respond to every design requirement** (on the wall, ceiling, in false ceiling)
- **Very low sound impact** thanks to the tangential fan and the DC INVERTER motor
- **Flat adapters as standard and 3/4" hydraulic connections**
- **Balancing valves as standard**
- **Availability of numerous accessories**
- **Condensate collection system** for vertical or horizontal installation as standard



Hydraulic connections on the left side as standard.

Model	L
IN 200	378
IN 400	578
IN 600	778
IN 800	978
IN 1000	1178

Technical data	Unit of measurement	HYDRO IN 200	HYDRO IN 400	HYDRO IN 600	HYDRO IN 800	HYDRO IN 1000
Code		3.029841	3.029842	3.029843	3.029844	3.029845
Weight	kg	17	20	23	26	29
Heating heat output (water at 45/40 °C)	kW	0,97	2,17	3,11	3,88	4,37
Water flow rate (45/40 °C)	l/h	168	374	535	668	752
Heating load losses (water at 45/40 °C)	kPa	7,8	7,2	11,5	21,3	20,4
Heating heat output (water at 70/60 °C)	kW	1,89	3,99	5,47	6,98	8,30
Water flow rate (70/60 °C)	l/h	162	343	471	600	714
Heating load losses (water at 70/60 °C)	kPa	6,7	7,6	16,1	14	19,8
Cooling heat output (water at 7/12 °C)	kW	0,76	1,77	2,89	3,20	3,73
Water flow rate (7/12 °C)	l/h	130	304	497	551	642
Cooling load losses	kPa	4,7	2,9	27,0	24,0	31,0
Power absorbed (Max. / Med. / Min. speed)	W	11/3	19/3	20/4	29/5	30/6
Air flow (Max. / Med. / Min. speed)	m³/h	146/90/49	294/210/118	438/318/180	567/410/247	663/479/262
Sound power level at max speed	dB(A)	50	51	53	55	56

Technical note:

For the total number of fancoils that can be combined with hybrid systems or heat pumps, it is necessary to evaluate in addition to the power of the appliance, also the flow rate and head characteristics and piping load losses. For more information contact Immergas customer service.

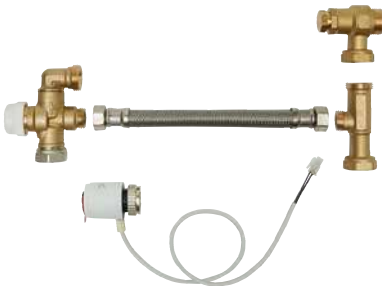


Thermoregulation for HYDRO IN

For the functioning of HYDRO IN it is required to install one of these kits to be able to manage the fan coil.

Tipologia		Codice
Smart touch wall controller with temperature probe includes control panel with PI logic and room probe for control up to 30 units. To combine with the on board electronic control with PID full modulating fan code 3.029896. Adjustment of temperature in hot and cold at modulating speed of the engine. It has a 230 V output for control water solenoid valve and presence inlet for deactivation in stand-by mode (for example for window contact or room presence badge hotel). Available in two colours: black and white		3.029897 <i>(black casing)</i> 3.029898 <i>(white casing)</i>
On board electronic control with PID full modulating fan to be provided in combination with the smart touch wall controller with temperature probe code 3.029897 and 3.029898; it is installed inside the fan coil and allows the engine to be operated with continuous modulating operation.		3.029896
Universal control board for commercial thermoregulation ideal for installation on the machine, it allows to manage the fan motor with fixed speeds. It has a 230 V output for control of the summer/winter water solenoid valve. It can be combined with commercial thermostats with fan speed selection. The 4 speed inputs activate the fan, according to pre-established speeds (possible also combination of 3-speed thermostats, using 3 of the 4 available inputs); multiple control board can be connected in parallel to a single thermostat.		3.028511
Electronic control board with 0-10 V connection It allows to manage the fan motor, with modulating speed. The motor adjustment is carried out through a 0-10 V DC analog input. It has a 230 V output for piloting of the water solenoid valve.		3.028512

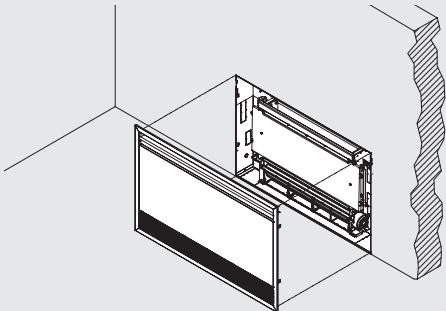
Options for HYDRO IN

2-way group valve kit composed of automatic valve with thermoelectric head and holder to balance the plant load losses. Including insulation.		3.028507
3-way group valve kit composed of three-way diverter valve with thermoelectric head, by-pass tube and holder to balance plant load losses. Including insulation.		3.028508
Connection cable to shift water connections from left to right to be used in case of reversibility of the hydraulic pipe connections on the right side, rotating the battery 180° (operation to be carried out on site).		3.029834

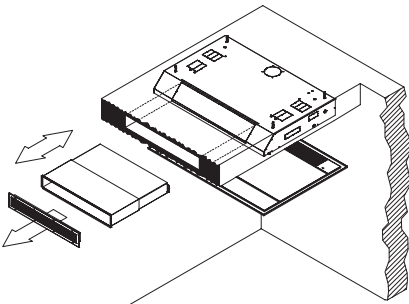
Option kits for HYDRO IN

The installation of the HYDRO IN built-in fan coils provides different assembly solutions based on the chosen solution or if installed on the wall, ceiling or false ceiling. The following pages show all the components available based on the chosen solution and the HYDRO IN version.

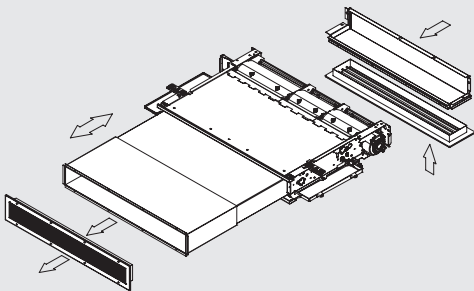
Wall built-in installation

Component	Type
	For this type of installation, in addition to the HYDRO IN, the following optional kits are required: • casing • aesthetic cover panel

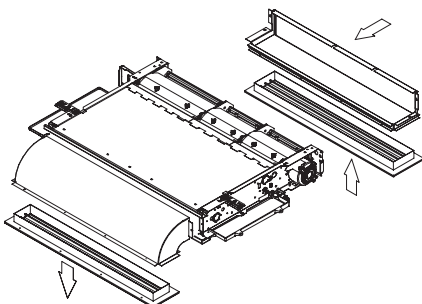
Ceiling built-in installation

	For this type of installation, in addition to the HYDRO IN, the following optional kits are required: • casing • aesthetic cover panel • variable length duct • air flow aluminum grill with straight profile
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Recessed installation in false ceiling with bottom air intake and horizontal throwing

	For this type of installation, in addition to the HYDRO IN, the following optional kits are required: • air intake aluminum grill with straight profile • air intake suction duct • variable length duct • air flow aluminum grill with straight profile
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Recessed installation in false ceiling with intake and airflow at the bottom

	For this type of installation, in addition to the HYDRO IN, the following optional kits are required: • air intake aluminum grill with curved profile • air intake suction duct • 90° bended airflow duct • air flow aluminum grill with curved profile
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Kit for wall built-in installation

For this type of installation, in addition to the HYDRO IN, the following optional kits are required:

- Casing
- Aesthetic cover panel

Sheet metal casing

In zinc-coated metal sheet, designed to be inserted in the walls in which to house HYDRO IN.

Type	Dimensions (H x W x D)		Code
For HYDRO IN 200	725 x 715 x 142 mm		3.029876
For HYDRO IN 400	725 x 915 x 142 mm		3.029877
For HYDRO IN 600	725 x 1115 x 142 mm		3.029878
For HYDRO IN 800	725 x 1315 x 142 mm		3.029879
For HYDRO IN 1000	725 x 1515 x 142 mm		3.029880

Casing cover panel with intake air grill

RAL 9003 opaque white colour, including air intake grill and adjustable air flow fin.

For HYDRO IN 200	754 x 772 x 9 mm		3.029881
For HYDRO IN 400	754 x 972 x 9 mm		3.029882
For HYDRO IN 600	754 x 1172 x 9 mm		3.029883
For HYDRO IN 800	754 x 1372 x 9 mm		3.029884
For HYDRO IN 1000	754 x 1572 x 9 mm		3.029885