

IDROBLOC

Air cooled chiller with axial fan
With capacity from 3.5 up to 6.7 kW

R407C



IDROBLOC®
IDROBLOC H®

IDROBLOC® is a low-consumption water chiller assembly designed for outdoor installation, sized to provide a water flow sufficient to run a relatively high number of terminal units. The thermal head of water to the evaporator can be contained to 2.5°C; in practical terms, this means that the system can run fancoils in all rooms, though only operating the ones located in rooms that are occupied. The user can select which of the fancoils installed are to be activated, simply by turning individual units on or off, without ever having to adjust the water distribution circuit.

IDROBLOC® may be installed on the ground or wall-mounted. With a size similar to that of regular outdoor water boilers, the **IDROBLOC®** is perfectly suited for new or restructured domestic applications.

Features

- Unit for roof-hanging or floor-standing installation with brackets supplied (only for IDROBLOC and IDROBLOC H)
- All versions are supplied for use with R407C
- Cooling only and heat pump version
- Compact dimensions
- Helical fan unit with axial delivery
- Evaporator dimensioned for working with $\Delta t = 2.5^\circ\text{C}$
- Antifreeze electric heater for the storage tank
- Hydraulic circuit complete with pump, expansion tank, storage tank, water filter, flow switch and safety valve
- Adjustment and control fully electronic with microprocessor card
- Pre-arrangement for coupling with boiler, with immediate seasonal switching
- Possibility of powering the fan coils of all the environments, keeping in operation only those relative to rooms that are occupied
- Electric power used within the standard domestic availability limits
- Extreme simplicity of installation

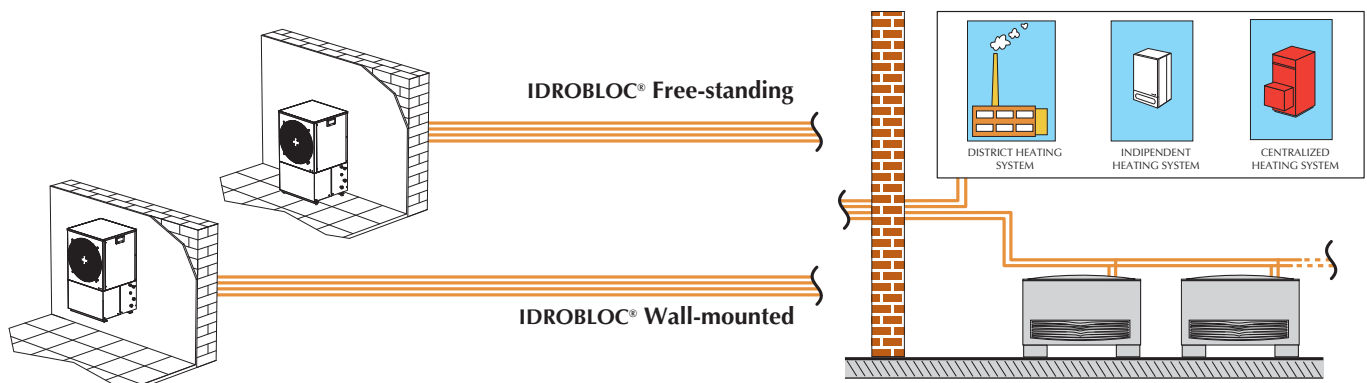
Accessories

- **DCPX:** (only for IDROBLOC) Low temperature device for correct cooling mode operation with ambient temperatures from less than 20°C down to -10°C.
- **PR3:** Simplified remote panel. Allows basic machine checks to be carried out (turning on and off, signalling of alarms and season changeover). Can be made remote with shielded cable up to 30 m.
- **PRD1:** Smart remote panel. Repeats at a distance the functions of the panel on the machine. Can be made remote with shielded cable up to 150 m.
- **SDP:** Electronic card for using PR3 accessory up to a distance of 150 m.
- **VT7:** Anti-vibration mounts.

IDROBLOC	Compatibility of accessories				
	DCPX 42	PR 3	PRD 1	SDP	VT 7
3 - 5	✓	✓	✓	✓	✓
3 H - 5 H		✓	✓	✓	✓

Installation

IDROBLOC® is quick and simple to install: simply position the unit, then make all water and electrical connections. The unit can be connected to any type of heating assembly: autonomous or centralised boiler, or district (remote) heating systems.



Technical data

IDROBLOC		3	3 H	5	5 H
Cooling capacity	kW	3,5	3,2	6,7	6,7
Total input power*	kW	1,5	1,5	2,8	2,9
Input current*	A	7,3	7,3	13,2	13,8
Evaporator water flow rate	l/h (nominal)	600	550	1150	1150
	l/h (max.)	2000	2000	2000	2000
Effective head	kPa (nominal)	69	69	58	58
	kPa (max.)	32	59	26	26
Heating capacity	kW	-	3,85	-	7,8
Total input power*	kW	-	1,45	-	3,1
Input current*	A	-	7,2	-	14,7
Evaporator water flow rate	l/h (nominal)	-	660	-	1340
	l/h (max.)	-	2000	-	2000
Effective head	kPa (nominal)	-	67	-	56
	kPa (max.)	-	55	-	26
♪ Sound pressure	dB (A)	33,5	33,5	39	39
Total air flow rate	m³/h	1200	1200	2300	2300
Compressors	n.	1	1	1	1
	type	Rotary	Rotary	Scroll	Scroll
Peak current (compressor)	A	33,5	33,5	75	75
Storage tank capacity	l	25	25	25	25
Expansion tank capacity	l	1	1	2	2
Pump speed	n.	3	3	3	3
Water connections (female Gas)	∅ (installation)	3/4"	3/4"	3/4"	3/4"
	∅ (heating)	1/2"	1/2"	1/2"	1/2"

Power supply = 230V ~ 50Hz.

Performance values refer to the following conditions:

♪ Sound pressure measured in free field conditions at distance of 10 m and direction factor = 2.

■ Cooling:

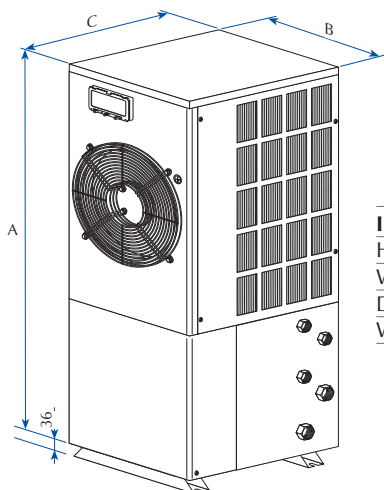
- water outlet temperature 7 °C;
- ambient air temperature 35 °C;
- Δt = 5 °C.

■ Heating:

- water outlet temperature 50 °C;
- ambient air temperature 7 °C D.B., 6 °C W.B.;
- Δt = 5 °C.

* = included the absorption of the circulation pump.

Dimensions (mm)



IDROBLOC		3	3 H	5	5 H
Height	A	990	990	1063	1063
Width	B	450	450	606	606
Depth	C	450	450	563	563
Weight	Kg	79	80	116	119

The technical data in this document are not binding.
Aermec S.p.A. reserves the right to make whatever modifications it deems necessary to improve the product at any time.

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