

RWD

Air-cooled liquid coolers.
Cooling capacities 10 - 372 kW.



RWD PROVIDES MEDIUM TEMPERATURE COOLING, OR FREE-COOLING IN WINTER WHEN MATED WITH A CHILLER, ENSURING EXCEPTIONAL ENERGY SAVINGS AND RAPID PAY-BACKS VERSUS CHILLER ONLY SOLUTIONS. RWD FEATURES ALL SYSTEM COMPONENTS INSTALLED ON-BOARD.

AN ENVIRONMENT-FRIENDLY SOLUTION

RWD liquid coolers, with finned coils and axial fans, are the ideal solution for the free-cooling of applications in which the process temperature is higher than the ambient temperature for most of the year. Exploiting low ambient air temperatures, RWD cools the fluid free of charge, eliminating energy wastages caused by running refrigerant compressors during winter.

FREE-COOLING

In new plants customers can select the RWD model which provides the ideal compromise between installation cost and return on investment. In the case of existing plants retrofitting an RWD equipped with a 3-way valve in series with the system chiller is a viable solution. Installation of an RWD not only increases the life of the chiller, but also allows significant energy saving levels ensuring a return on the initial investment in approximately twelve months.

MICROPROCESSOR CONTROLLER

RWD units can be equipped with a microprocessor featuring an intuitive graphic interface. The controller manages the fans independently, starting them in steps in proportion to the fluid inlet temperature.

REDUCED COSTS, REDUCED ENVIRONMENTAL IMPACT

Cooling towers suffer substantial costs due to the treatment of the process water. Because it uses a closed circuit, RWD does not require any form of process fluid treatment and eliminates liquid losses caused by evaporation.

PLUG AND PLAY

From RWD200 the main components such as 3-way valves, manifolds, and single or double pumps can be installed in the unit. RWD can be installed outdoors thanks to the IP54 protection rating and epoxy surface coating of the frame. Consequently no time is lost in component selection and RWD installation is rendered quick and easy.

ACCESSORIES

- Electrical panel;
- Microprocessor controller;
- Electronic fan speed regulation (special);
- Differing head pressure pumps in single or twin configurations (RWD 200-350) (special);
- Metal mesh protection filters for coils;
- 3-way valves + manifolds (RWD 200-350) (special);
- 60Hz power supply (special);
- Manifolds kit;
- Horizontal installation kit (RWD 030-150).

Model RWD		010	020	030	040	050	075	100	150	200	250	300	350
Cooling power	kW	10	20	31	41	49	69	97	133	195	248	304	372
Absorbed power	kW	0,5	1	2	2	2	4	4	6	8	10	10	12
Water flow	l/h	1797	3470	5315	7052	8522	11899	16821	23126	33822	43079	52783	64653
Pressure drop	bar	0,162	0,267	0,337	0,267	0,384	0,600	0,341	0,639	0,330	0,530	0,390	0,66
Fans	n°	1	2	1	1	1	2	2	3	4	5	5	6
Absorbed power	dB(A)	48	51	60	59	58	62	61	63	64	65	64	66
Power supply	V/Ph/Hz	230±10%/3/50						400±10%/3/50					
Depth	mm	847	1682	2145	2145	2145	3042	3959	4860	4390	5295	5295	6200
Width	mm	440	440	779	779	779	779	779	779	1510	1510	1510	1510
Height	mm	763	763	1364	1364	1364	1364	1364	1364	1485	1485	2085	2085
Height with legs	mm	-	-	1534	1534	1534	1534	1534	1534	-	-	-	-
Weight	Kg	57	109	413	423	433	562	679	821	1064	1271	1543	1803
Water connections without manifolds		G 1"	G 1"	G 1 1/2"	G 1 1/2"	G 1 1/2"	G 2"	G 2"	G 2"	G 2"	G 2"	G 2 1/2"	G 2 1/2"
Water connections with manifolds		-	-	-	-	-	-	-	-	DN 80	DN 80	DN 100	DN 100

Values refer to standard units at the following operating conditions: ΔT 10°C between water inlet temperature and ambient temperature, ΔT 5°C between water inlet temperature and water temperature at outlet from chiller located at sea level and with 0% glycol.

Model RWD 020 is available also in a version for connection to a 400V±10%/3/50Hz power supply.

Sound pressure level in hemispherical field at 10 m from condenser side and 1.6 m from ground. Values with tolerance ± 2 dB.

The sound levels refer to operation of the unit under full load in nominal conditions.