ilmed IMPIANTI

40 cooling towers since 1981

MADE IN ITALY

Since 1981

ACCREDIA L'ENTE ITALIANO DI ACCREDITAMENTO

DRY COOLER

AIR COOLING

> ILMED IMPIANTI:
Innovative Cooling Solutions

Welcome to ILMED IMPIANTI, your reliable partner for highly efficient and environmentally friendly cooling solutions. Find out our high-quality Dry Coolers and Adiabatic Dry Coolers, designed to meet your most demanding cooling needs.

> Dry Cooler:
High Efficient Cooling

ILMED IMPIANTI's Dry Coolers represent a cutting-edge cooling solution. Their operation is based on a high efficient heat exchange process. Here's how they work:

- ✓ **Cooling Air:** Ambient air is drawn through the cooler, which contains copper tubing through which hot fluid flows from a source (such as an industrial process or HVAC system).
- ✓ **Heat Exchange:** The heat of the fluid is transferred to the cooling air through the copper pipes. The air, being colder than the exhaust air, absorbs the heat.
- ✓ **Cooling Air:** The now warm cooling air is extracted through a fan and released into the ambient.

> Adiabatic Dry Cooler:
Maximum Efficiency in All Ambient Conditions

ILMED IMPIANTI's Adiabatic Dry Coolers obtain an higher efficiency using adiabatic cooling. The process is as follows:

- ✓ **Adiabatic Cooling:** fresh air passes through a wet evaporative panel. Water evaporates absorbing heat from the air and lowering the temperature.
- ✓ **Heat Exchange: :** The cooled cooling air flows through the cooler tubes, exchanging heat with the hot fluid.
- ✓ **Fluid Cooling**: The hot fluid cools, allowing the process or application for which it is intended to be effectively cooled.
- ✓ **Optimized Efficiency:** This approach improves efficiency, especially in hot climates, and reduces working costs.

> Common applications

- ✓ Cooling of industrial processes.
- ✓ Air conditioning in commercial buildings.
- ✓ Cooling of servers in data centers.
- ✓ Customized applications based on customer needs.

> Heat exchange batteries

- ✓ All the finned coils of the liquid coolers are made with copper tubes and aluminum fins with high efficiency pyramidal corrugation
- ✓ The battery frame is made of FeZn of a thickness suitable for the weight of the exchanger
- ✓ To eliminate tube breakage problems, all the expanding is carried out on aluminum backings so that there is no direct contact between the copper tubes and the iron frame

> Casing

- ✓ The liquid coolers are made with FeZn casing painted with RAL9016 epoxy powder
- ✓ The fan nozzles are of the high collar type made to obtain maximum performance and minimum noise

> Electric fans

- ✓ All standard motors are 400V - 3F - 50Hz
- ✓ 60 Hz versions are available on request for all diameters
- ✓ The motors are of the external rotor type with IP54 protection and very high efficiency
- ✓ Statically and dynamically balanced fans

> Final Testing

- ✓ All coils are tested with dry air and adequately degreased
- ✓ For the standard versions the maximum operating pressure is 10 bar

> MOD. RS/F

MODEL NAME	Fan Number	Fan Diameter	Air Flow	Power Consumption	Dimensions		
	-	mm	m3/h	kW	W [mm]	L [mm]	H [mm]
RS/F/A/1	1	500	7.350	0,77	1.060	1.326	850
RS/F/B/2	2	500	14.700	1,54	1.060	2.226	850
RS/F/D/3	3	800	55.200	5,4	1.550	4.912	950
RS/F/E/4	4	800	73.600	7,2	1.550	6.406	950
RS/F/F/5	5	910	111.000	12,4	1.550	7.902	950

> MOD. RS/FD

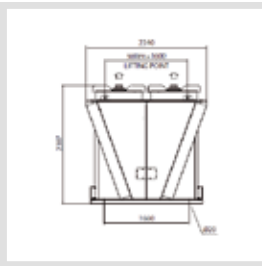
MODEL NAME	Fan Number	Fan Diameter	Air Flow	Power Consumption	Dimensions		
	-	mm	m3/h	kW	W [mm]	L [mm]	H [mm]
RS/FD/B/4	4	500	20.300	1,16	1.959	2.227	850
RS/FD/C/6	6	500	30.400	1,74	1.959	3.127	850
RS/FD/E/8	8	910	176.500	19,84	2.240	6.476	950
RS/FD/F/10	10	910	220.600	24,8	2.240	7.976	950
RS/FD/G/12	12	910	264.700	29,76	2.240	9.476	950
RS/FD/H/14	14	910	308.800	34,72	2.240	10.976	950

> MOD. RS/V

MODEL NAME	Fan Number	Fan Diameter	Air Flow	Power Consumption	Dimensions		
	-	mm	m3/h	kW	W [mm]	L [mm]	H [mm]
RS/FV/B/2	2	910	56.150	4,96	1.180	2.430	1.858
RS/V/D/4	4	910	112.300	9,92	1.180	4.770	1.858
RS/V/E/6	6	910	168.450	14,88	1.180	7.110	1.858
RS/V/G/8	8	910	224.550	19,84	1.180	9.450	1.858

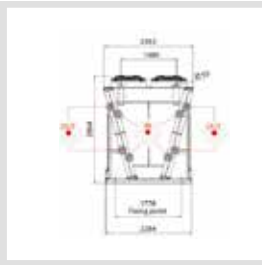
> MOD. RS/VD

MODEL NAME	Fan Number	Fan Diameter	Air Flow	Power Consumption	Dimensions		
	-	mm	m3/h	kW	W [mm]	L [mm]	H [mm]
RS/VD/C/4	4	800	63.800	3,28	2.340	3.150	2.307
RS/VD/D/6	6	800	95.700	4,92	2.340	4.650	2.307
RS/VD/E/8	8	800	127.600	6,56	2.340	6.150	2.307
RS/VD/E/10	10	910	252.000	24,8	2.340	6.650	2.307
RS/VD/F/12	12	910	302.400	29,76	2.340	7.950	2.307
RS/VD/G/14	14	910	352.800	34,72	2.340	9.250	2.307
RS/VD/H/16	16	910	403.200	39,68	2.340	10.550	2.307



> MOD. RS/VDX

MODEL NAME	Fan Number	Fan Diameter	Air Flow	Power Consumption	Dimensions		
	-	mm	m3/h	kW	W [mm]	L [mm]	H [mm]
RS/VDX/F/14	14	910	421.950	50,4	2.363	8.355	2.864
RS/VDX/G/16	16	910	482.250	57,6	2.363	9.495	2.864
RS/VDX/H/18	18	910	542.500	64,8	2.363	10.635	2.864
RS/VDX/I/20	20	910	602.800	72	2.363	11.775	2.864



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