

ECOULER



111



ECOULER

MAIN COMPONENTS OVERVIEW

- COOLING CAPACITY Up to 3000 kW*
- NUMBER OF FANS
- Section 1250 mm
- Q Up to 450.000 m³/h

* Standard conditions EN1048





- EC fans
 Main electrical panel
 Humidity and temperature transducer

4. Feed actuated valve 5. Discharge actuated valve

ECOULER: THE ECO-FRIENDLY ADIABATIC PRODUCT RANGE

Units designed to meet the increasing demand for free-cooling applications, they optimise the benefits coming from the adiabatic saturation of the air adopting a water recirculation system and electronically commutated fans. The water and power consumption are thus minimised, resulting in Energy Ratio maximisation and the possibility to use "free-cooling" applications throughout all the year.

HIGHLIGHTS

HIGH EFFICIENCY EC FANS

Compared to units equipped with standard EC fans, the high efficiency diffusers allow to:

- reduce the speed of the fans;
- reduce the sound level down to 3dB(A);
 reduce the energy consumption down to 15%; or
- increase the air flow up to 9%;
- increase the thermal exchange up to 8%.









EVAPORATIVE COOLING PADS Panels made of pure cellulose imbued with resins and biocide and antibacterial agents.



RECIRCULATION PUMP





MAINTENANCE DOOR Full access to the inside of the unit protected by security switch.



INSPECTIONABLE TOP GUTTER

Complete inspection possibility of the recirculation circuit for easy maintenance.



FEED/DISCHARGE ACTUATED VALVES

IP54, maintenance free approvals: CE, UL, CSA.



ULTRAVIOLET LAMP

It allows the complete water sterilization of the adiabatic system by means of a lamp that mits doses of UV radiations that are lethal to pathogens (including the Legionella bacteria).



RECIRCULATION SYSTEM

ECOOLER



COMPONENTS

- 6. Water distribution pipes7. Recirculation pump8. Overflow9. Drain

- Drain
 Make-up water
 Self-draining drip
 Water basin
 Heat exchanger
 Protection grids
 Evaporative cooling pad
 Droplet separator
 Inspectionable top gutter



EVAPORATIVE COOLING





Due to the adiabatic saturation made possible by the Industrial Adiabatic System, the Refrion design model provides an increase in relative humidity of Δ R.H. = +60% up to a maximum of R.H. = 99%.

BENEFITS

PLUS

+ ENHANCED HEAT EXCHANGE CAPACIT

+ FULL CONNECTIVITY

- + MINIMISED SOUND LEVELS
- + EASE OF MAINTENANCE

DECREASED OPERATING COSTS

- MINIMISED WATER CONSUMPTION
- NO NEED FOR WATER TREATMENT
- MINIMISED ENERGY CONSUMPTION

NO BACTERIAL PROLIFERATION

- + SELF DRAINING SYSTEM
- NO DROPLETS IN THE AIRFLOW
- NO WATER STAGNATION

REDUCED INSTALLATION COSTS

- + SUITABLE FOR TRUCK TRANSPORT
- REDUCED WEIGHTS AND FOOTPRINT
- NO NEED FOR FINAL ASSEMBLY ON SITE



SAVING

SPECIFIC WATER CONSUMPTION









SUPER JUMBO + INDUSTRIAL ADIABATIC SYSTEM (WITHOUT RECIRCULATION SYSTEM)



ITALY

Refrion S.r.l. Vicolo Malvis, 1 33030 Flumignano di Talmassons (UD) Ph.: +39 0432 765533

SWITZERLAND

Refrion Schweiz GmbH Tannackerstrasse, 7 3073 Gümligen BE Ph.: +41 (0) 31 952 66 58

RUSSIA

Xchange RUS Borisovskie prudy, 10-5 115211 Moscow Ph.: +7 (495) 585-11-89

GERMANY

Refrion Deutschland GmbH An der Bahn, 51 23867 Sülfeld Ph.: +49 (0) 4537 7066055

The data in this leaflet are indicative. Refrion reserves the right to modify the data at any time.

© OCT 2018 All rights reserved.



refrion.com