

Gas cooler RKVM-PAD

Series RKVM-PAD is consisting of gas coolers V shape with adiabatic system realized with evaporative panels, suitable to be used in refrigeration and air conditioning, when installation is about plant with transcritical CO₂.

Thanks adiabatic system, the unit performances are granted also at hard working conditions, that can happen for short period during the year or in hottest hours in summer days.

Gas coolers RKVM-AD operates in dry mode and without water consumption for the most part of the year and activate the adiabatic spray system only during temperature or power peaks to be disposed of.

Thanks adiabatic system, these units grant performances higher than traditional gas coolers operating in dry mode with same dimensions.

Adiabatic spray system with evaporative panels, in addition to allowing reduced energy and water consumption, can be used for an unlimited number of hours without the need to provide protective treatments on the coils and make chemical treatments on the water used.



Capacity range from 99 to 657 kW.

Casing

The frame design provides high rigidity.

Casing manufactured from galvanized steel powder painted colour RAL 9002, corrosion resistant.

All rivets and bolts are in stainless steel AISI 304

Heat exchanger

Heat exchanger is equipped with suspending tubes system that avoid the contact between tubes and frame and it provides full protection of the heat exchanger against vibrations and thermal expansions.

The coil is realized with rippled alloy copper pipes K65 and aluminium fins.

PS 120 bar and TS -40 / +140 °C, according to standard PED 2014/68/EU.

Fans

High efficiency fans provide high performances with limited power consumption. They are complete of thermal protection, protection grid according to EN ISO 13857, dynamically and statically balanced and according to ErP directive.

AC and EC fans are available with diameter 910 mm with motors with external rotor, insulation class F, standard protection degree IP 54 (EN 60529).

Noise level from 35 dB(A) at 10 m (EN 13487).

Standards

The products are designed and manufactured according to following EU Directive:

- PED 2014/68/UE
- 2006/42/CE (Machinery Directive)
- 2014/35/UE (LVD Directive)
- 2014/30/UE (EMC Directive)

Options

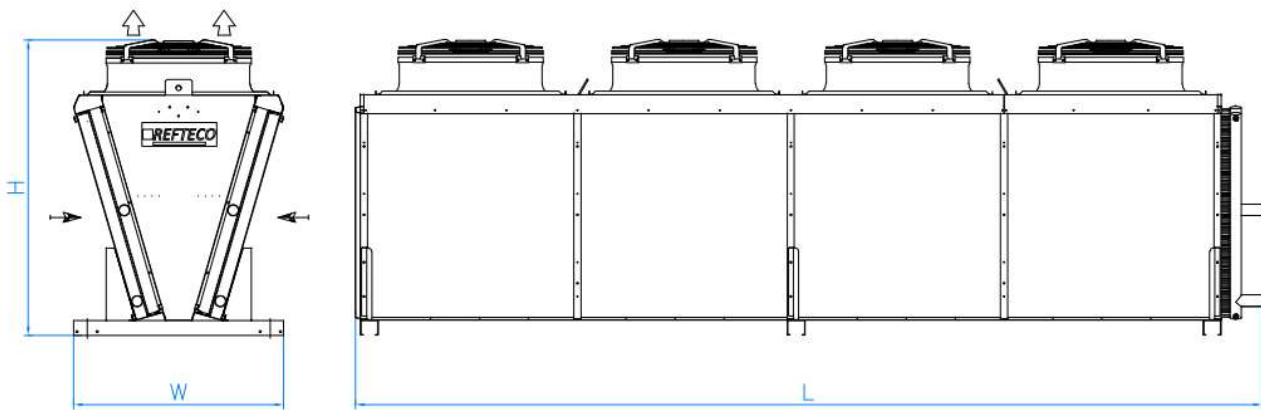
- Fins spacing 2,1 – 2,3 – 2,5 – 3,0 – 4,0 mm
- Special fans for application with high static residual pressure
- ATEX fan
- Stainless steel pipes AISI 304 or AISI 316L
- Plane aluminium fins for easier cleaning
- Copper fins
- Stainless steel fins AISI 304 o AISI 316L
- Epoxy coated Aluminium fins
- Protective coating on coil
- Vibration dampers
- Switch off for fans
- AC and EC fans wiring
- Casing with special painting
- Stainless steel casing AISI 304 or AISI 316L

Code key

R	K	V	M	090	6	C	6	D
1	2	3	4	5	6	7	8	9

1. Refteco
2. Gas cooler
3. V Shape
4. Medium, single row of fans
5. Fan diameter (mm)
6. Number of fans
7. Size of coil (number of rows)
8. Poles number of fans
9. Fans connection (D = triangle, Y = star, S = single phase)

Dimensions



Number of fans	Dimensions (mm)		
	L	W	L
1	1500	1433	1684
2	2700	1433	1684
3	3900	1433	1684
4	5100	1433	1684
5	6300	1433	1684

Warranty

Products are granted, against any construction defect, for 24 months from shipping date. Damages caused by normal wear, corrosion, faulty assembly or maintenance are excluded.