

## Evaporators and air coolers REDI, RBDI, RGDI and RADI

Series R\_DI is consisting of double flow evaporators and air suitable for preparation rooms and cold rooms with medium and big dimensions with volume from 150 to 1600 m<sup>3</sup>. These units are designed for heavy employ for cooling and storage of fresh and frozen products with temperature from -40°C to +20°C, granting efficient heat exchange, low noise level, low electric consumption and limited dimensions.

These units are available with different type of refrigerants:

- Dry expansion evaporators HFC
- Air coolers for no frost solutions
- Dry expansion evaporators CO<sub>2</sub>
- Ammonia pump evaporators



Capacity range from 15 to 90 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 copper pipes (rippled for REDI diam. 16 mm and minimum thickness 0,3 mm and RBDI diam. 12 mm and minimum thickness 0,3 mm to grant high efficiency and optimal evaporation, smooth for RGDI diam. 16 mm and minimum thickness 0,3 mm) and aluminium fins. For ammonia units RADI, pipes are in stainless steel 304, diam. 16 mm and minimum thickness 0,7 mm.

Evaporators HFC: PS 30 bar and TS -40 / +120 °C, according to standards PED 2014/68/EU.

Evaporators CO<sub>2</sub>: PS 33, 45 and 60 bar and TS -45 / +120 °C, according to standards PED 2014/68/EU.

Air coolers: PS 16 bar and TS -40 / +120 °C, according to standards PED 2014/68/EU.

Ammonia evaporators: PS 23 bar and TS -40 / +120 °C, according to standards 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 500 and 630 mm with motors with external rotor, insulation class F, standard protection degree IP 54 (EN 60529).

### 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

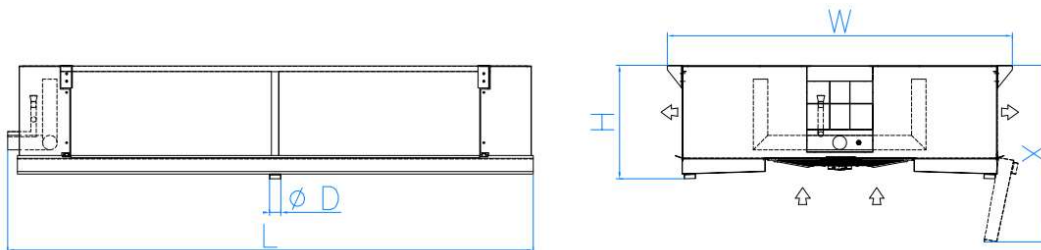
- Fins spacing 4,0 – 6,0 – 8,0 – 10,0 mm
- ATEX fans
- Stainless steel pipes AISI 304 or AISI 316L
- Stainless steel fins AISI 304 or AISI 316L
- Epoxy coated aluminum fins
- Protective coating on coil
- Fins alloy AlMg
- Insulated drip tray
- Electric, light electric, hot gas, hot glycol, water defrost
- Drain outlet heater
- Switch of each for fans
- EC fans wiring
- Stainless steel casing AISI 304 or AISI 316L

### Code key

|          |          |          |          |            |          |          |          |          |          |          |
|----------|----------|----------|----------|------------|----------|----------|----------|----------|----------|----------|
| <b>R</b> | <b>G</b> | <b>D</b> | <b>I</b> | <b>050</b> | <b>2</b> | <b>F</b> | <b>6</b> | <b>A</b> | <b>4</b> | <b>D</b> |
| 1        | 2        | 3        | 4        | 5          | 6        | 7        | 8        | 9        | 10       | 11       |

1. Refteco
2. Type of refrigerant (E = HFC, G = glycol, B = CO2)
3. Double flow
4. Industrial
5. Fan diameter (mm)
6. Number of fans
7. Size of coil (number of rows)
8. Fins spacing (mm)
9. Type of defrost (A = air, E = electric, EL = light electric, W = water, HG = gas caldo, GC = hot glycol)
10. Poles number of fans
11. Fans connection (D = triangle, Y = star, S = single phase)

### Dimensions



| Model     | Dimensions (mm) |      |     |     |        |
|-----------|-----------------|------|-----|-----|--------|
|           | L               | W    | H   | X   | D      |
| R_DI 0501 | 1300            | 1720 | 623 | 877 | 2"     |
| R_DI 0502 | 2030            | 1720 | 623 | 877 | 2"     |
| R_DI 0503 | 2760            | 1720 | 623 | 877 | 2"     |
| R_DI 0504 | 3490            | 1720 | 623 | 877 | 2"     |
| R_DI 0505 | 4220            | 1720 | 623 | 877 | 2"     |
| R_DI 0632 | 2770            | 1820 | 598 | 932 | 1" 1/4 |
| R_DI 0633 | 3870            | 1820 | 598 | 932 | 1" 1/4 |
| R_DI 0634 | 4970            | 1820 | 598 | 932 | 1" 1/4 |

### Warranty

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