



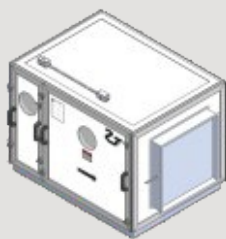
TECHNOLOGY FOR CONTAMINATION CONTROL

LRTK
UNIDADE DE TRATAMENTO DE AR COMPACTA

ZK KLIMA
REINTECH



ZK REINTECH



LRTK – COMPACT AIR TREATMENT UNIT

The Compact Air Units REINTECH controls internal and externally the temperature and relative air humidity in specified areas. Made only under demand and according to the real needs of use. It is applied in areas that need contamination control and industries.

STRUCTURE

Base in aluminium special profile
Base with 50 mm PU isolation with a retarder
Sandwich panel with PU and retarder 50 mm isolation
External plate #26 galvanized steel pre painted RAL 9003
Internal plate #26 galvalume steel
Panel frame with soldered aluminium profiles
Isolation density of 38 to 42 Kg/m³
Airtight doors with 04 handles
Monoblock purveyance

ACCESSORIES

Condensated drain of 32 mm built-in laterally
Door-panel with double visor
LED 7 illumination in all modules
Pressure Reading points in all components
Pressure Reading point in the aspiration cone
Cable-press lectric components
Electric resistances with metallic fins and 6,5 W/cm² dissipation
*if applicable
Protection grid in galvanized steel at the fan's suction
U column manometer from +50 to -50 mmH₂O

FILTERS

Dimensions internationally padronized
Soldered aluminium filter frames
Test point for filters HEPA 1.1/2"
Pressure Reading point downstream/upstream
Filter dimensioned for 4.000 m³/h
Fine filter pleated in V and HEPA H13
Boxed course filter 44 mm
Filter HEPA 1.1/2" test point

DAMPERS

Dimensioned for speed ≤ 10 m/s
Structure and metallic fin with opposing blades
Engines of engineering plastics
Manual drive or prepared for motorization
Class 3 – EM 1751

SERPENTINES

Aluminium headboard
Aluminium metallic fin ≤ 12 metallic fin/inches
Water cargo loss ≤ 5 mH₂O
Face velocity ≤ 2,5 m/s for cooling
Face velocity ≤ 4 m/s for heating
6 rows maximum for cooling and 1.067 mm height
Maximum 1 row for steam
Soldered Copper collector, tubes and curves
Air purge at the collectors, superior side
AISI 304 stainless steel condensated tray
PU and isolated drains with metallic box
Thermostatic expansion valve *if applicable

NOTE: CONTACT OUR COMMERCIAL TEAM FOR SPECIAL SOLUTIONS.



Note: Cooling serpentes dimensioned for speed $\leq 2,5$ m/s
Note1: Model LRTK XX, multiply by 1.000 to select airflow

Mixture module with Coarse and Fine filters - return

Cooling serpentine

Electric heating

Heating serpentine

Umidification module

Fan module - insufflement

Fine filter module - insufflement

HEPA filter module - insufflement

LRTK-

LRTK-

AE

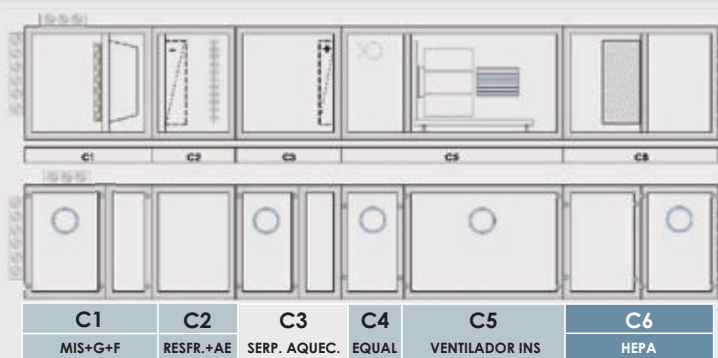
SR

UM

LRTK-

LRTK -F

LRTK-H



MOD.	C1	C2	C3	C4	C5	C6	BASE	ALTURA
2.0	695	350 ⁽⁴⁾	650	350	950 ⁽⁵⁾	650	950	650
4.0	695	350 ⁽⁴⁾	650	350	950 ⁽⁵⁾	650	950	950
6.0	695	350 ⁽⁴⁾	650	350	1250 ⁽⁵⁾	650	950	1550

Note2: This type of fan is selected at the point of best performance, facing the constructive feature of this type of solution, with direct coupling, the REINTECH limits operation at the selection point to a maximum of 80Hz

Note3: Dimensions expressed in millimeters

Note4: Fan module dimension can be changed to 650mm for 2.0 and 4.0 equipments and 950 mm for equipment 6.0

Note5: Cooling module dimension for 8R serpentine must be 650 mm

FANS

Plenum Fan with direct coupling

Rotor limit load

W 22 premium IR3 motor

Galvanized steel structure

Engineering polimer or painted steel rotor

Separation panel with isolated 50 mm

Dimensioned rollers for 30.000 to 40.000 hours

Discharge speed < 12 m/s

Centrifugal with pulley and belt volute or direct coupling

Pulleys and straps protection

Discharge speed < 12 m/s

Unique base

25.000 hours rollers



EQUIPMENT CONSTRUCTED ACCORDING TO EN 1886	Resistance D1-D2 T2 thermal isolation Thermal bridge Tb2 Tightening L1-L2 Total piezometric line Reading points
TEST CABIETS ACCORDING TO DW 43	1.200 Pa 1.500 Pa 1.000 Pa Classes B and C
ENGINEERING TOTALLY DEVELOPED BY REINTECH	Aluminium filter boxes Distance > 250 mm between serpentines and resistances HEPA filters test points REINTECH Damper
REINTECH DIFFERENTIALS	Lighter equipment of the category Aluminium skid as optional Modules purveyance Detailed 3D Project Data sheet of the equipment Conservation and maintenance Substitutes list FAT protocol and photographic relatory * if applicable Leaks test and protocol Unique engineering montage Total commissioning
OPTIONS FOR INTERNAL COATING	Pre painted white RAL 9003 plate Natural aluminium AISI 304 stainless steel
OPTIONS FOR PROTECTION AND COMMAND ELECTRIC PANEL	Frequency inversors Power variators General protection
COMPLETE AUTOMATION OPTIONS	IHM 10" or 12" – CFR 21 Part 11 system PLC + ETHERNET



FAN OPTIONS

Fan Wall electronic fan
Galvanized steel protection grid at the fan's suction

OPCIONALS

Horizontal rounded corners at the internal base of the equipment/rounded in natural aluminium
Cleaning drains in all modules
ALuminium metallic skid f 300 mm
Base leveler
Analogical manometer (0 to 500 Pa – filter)
Germicide ultraviolet lamps with electric panel
Doors micro switch
Passage box with bornes ruler
Cover for installation to weather
Rock wool isolation
Sandwich panel with 75 mm or 100 mm
Mole cushion for the fans
Resistances with metallic fins of stainless steel 6,5 W/cm²
Copper serpentine
Gold finn serpentine
PIR filling
ATEX UTA
AISI 304 humidifier lance - Ø2"
REINTECH humidifier
Ir4 super premium motors
Skid with stainless steel tray (height 500 mm)
Blue RAL 5008 external plate
HEPA filter *plus +/- 20% initial cargo loss
External damper with filter G4
Protection grid at the fan module door
IP66 electric

