

VEXTRA

Drycoolers



Up to 1900 kW

*Slim design and
acoustic comfort*

*Saves up to
40% floor space*



Free cooling

USE

Drycoolers in this range are mainly designed for cooling water or glycol/water mix for:

- Condensers for water chillers,
- Free cooling,

- Processes and machines (presses, compressors etc.)
- Replacing water cooling towers etc.

These devices are designed to be installed outdoors.

RANGE

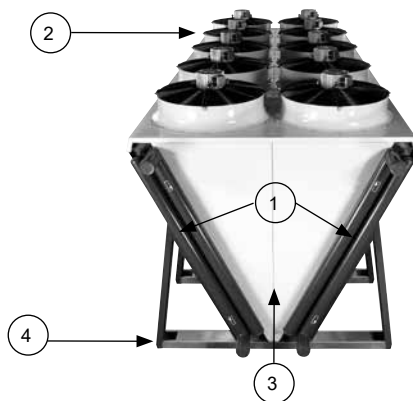
- More than 220 models.
- A range of sizes, from 6 to 20 fans.
- 2 impeller diameters, 800 or 910 mm.
- Several rotation speeds, from 340 to 1270 rpm (AC motor).

Various combinations of these elements, as well as the choice of a number of options, allow us to provide devices that are adapted to a range of applications and environments.

DESCRIPTION

Excellent resistance to corrosion

Casing with corrosiveness resistance category as per ISO 12944-2.



1 Coils

Copper tubes and high-performance aluminium fins, resistant to fouling.

Manifolds and piping: RAL 7024 graphite grey painted steel.

2 Fan motor assemblies

Profiled collars in galvanised steel with RAL7035 polyester powder paint or RAL9005 composite depending on the motor reference.

Aluminium + polypropylene propeller.

Class F motors - IP54 - TRI400V +/-10% 50Hz+/-2% - Standard connection to motor terminal boxes

Black protective grille compliant with standard BS ISO 12499. Partitioning in pairs.

The motors are also available in a 60 Hz version or in other voltages.

3 Casing

Galvanised steel with polyester powder paint in RAL7035 light grey.

4 Feet

Galvanised steel with polyester powder paint in RAL7024 light graphite grey.

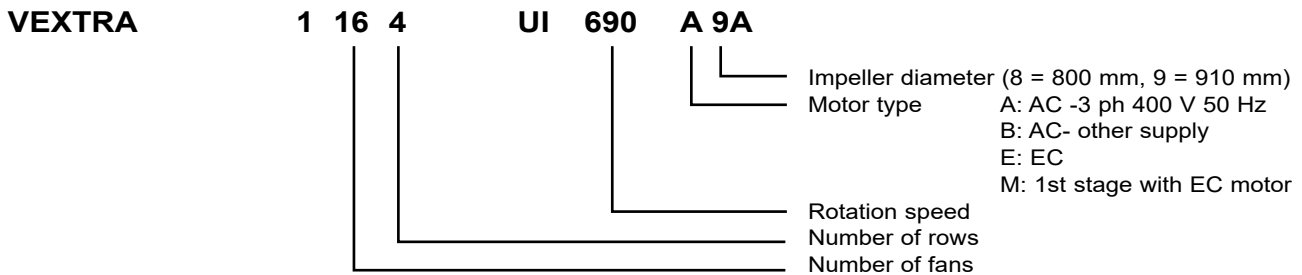
Each device is tested:

- The tightness of the coil is subjected to an underwater airtightness test.
- For devices with the terminal box or electrical cabinet option: rotation tests, dielectric tests, current measurement.

The entire range complies with the following European directives:

- Machinery directive 2006/42/EC,
- EMC directive 2014/30/EU,
- Pressure Equipment Directive (PED) 2014/68 EU.

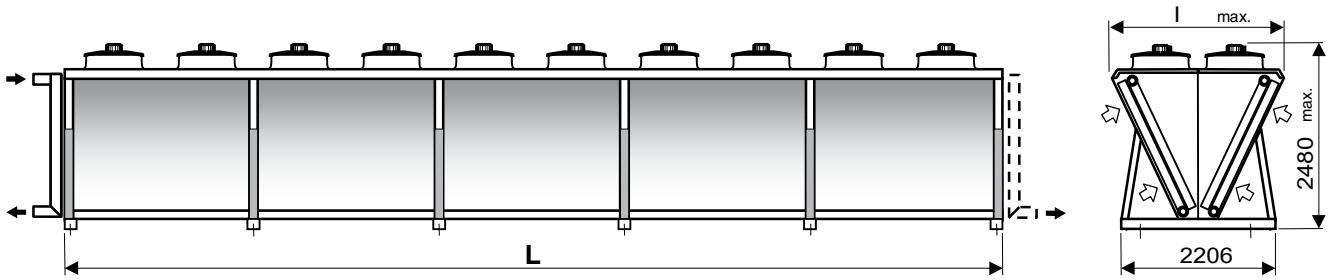
DESCRIPTION



OPTIONS FOR EACH APPLICATION

	Options	Description/advantages
Protection adapted for the environment	Pre-coated aluminium fins	Improves the resistance of the fins to corrosion. For low corrosion environments.
	High-efficiency coating on fins: ALUCOAT®507/HERESITE (on request)	Improves the resistance of the fins to corrosion. For relatively corrosive environments.
	Stainless steel tubing bundle	For corrosive fluids.
	Corrosiveness resistance category C5M	Casing and fan motor assemblies for corrosive environments.
	ATEX II 2G/3G	For explosive atmospheres.
Quick, simple installation	Terminal box	Connection to the terminals of each motor on the front panel of the device.
	Protection cabinet	Protected by a thermal-magnetic circuit breaker on each motor.
	Control cabinet	Motor and control protection, either by electronic board, depending on the temperature, or by the chiller if compatible.
	Flanges	NFE 1092-1 type 01A PN16 steel
	Counter-flanges	In steel, with gaskets and bolts.
Blade protective screen	Impact protection	
Optimisation of electrical consumption and noise	EC (electrically commutated) motor	Variable speed control from 0 to 100% using a 0/10V signal.
Application for water without glycol	Drainable coil	Device located on a slope to prevent frost - drainage by gravity
Free cooling application	Free cooling valve kit	Valves with motors controlled by the control cabinet. Controlled according to the operation of the drycooler or water chiller.
Adiabatic cooling application	AEROFRESH (water misting into the air flow)	Water misting into the ambient air allows the size of the device to be reduced or the cooling tower to be replaced. Operates completely safely due to the antibacterial treatment applied to the water.
Secure transport	Skid for transport by container	Secure transport and easy loading/unloading. option on request - availability depends on the models

DIMENSIONS



	1060	1080	1100	1120	1140	1160	1180	1200
L (mm)	3550	4700	5850	7000	8150	9300	10450	11660
I (mm)	2305 to 2420 depending on the model							

Up to size 1180, these units can be transported by container, if the width is compatible.
Dimensions without options.

INSTALLATION RECOMMENDATIONS

- These units are designed to operate outside.
When starting up, frost and snow could adversely impair its operation.
As a general measure, all steps should be taken to avoid the risk of air recycling. This is especially important when the installation comprises several units.
It is not recommended to install units near the hot air extraction duct outlet or close to deciduous plants (this could cause clogging).
- Allow a clearance of 1.5 m around the unit. Where the use of anti-vibration mounts is required, use a rigid frame which locks the feet together.
- If speed regulators other than those recommended by the manufacturer are used, check that these are compatible with the electric motors.
- **Commissioning and maintenance:** refer to the instruction manual.
- These units **comply with the European directives**. The installer is responsible for ensuring the compliance of the installation. The installer must ensure safety and protective devices (emergency stop, shut-off valves, lightning protection, etc.) are put in place and are accessible.

This document is not legally binding. As part of its continuous drive to improve its equipment, CIAT reserves the right to make any technical modifications without prior notice.
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Siège social (Head office)

700 Avenue Jean Falconnier - B.P. 14
01350 - Culoz - France
Tel.: +33 (0)4 79 42 42 42
Fax: +33 (0)4 79 42 42 10
www.ciat.com



CIAT Service

Technical support: 0 892 05 93 93 (€0.34/min)
Spare parts: 0 826 96 95 94 (€0.15/min)
pdrfrance@ciat.utc.com - PDRGarantie@ciat.fr

