

VEXTRA™

Drycoolers

*Slim design and
acoustic comfort*

*Saves up to
40% floor space*



Up to 1900 kW



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

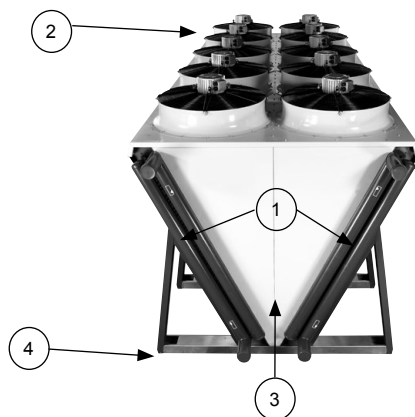
- More than 220 models.
- A range of sizes, from 6 to 20 fans.
- 2 impeller diameters, 800 or 910 mm.
- Adaptation of the rotation speed (EC motor).

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 2 Coils

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

Manifolds and piping: unpainted copper except for diameter 125 which are 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.

EC motors can be used in 50 or 60 Hz and from 380 to 480V +/- 10%.

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.

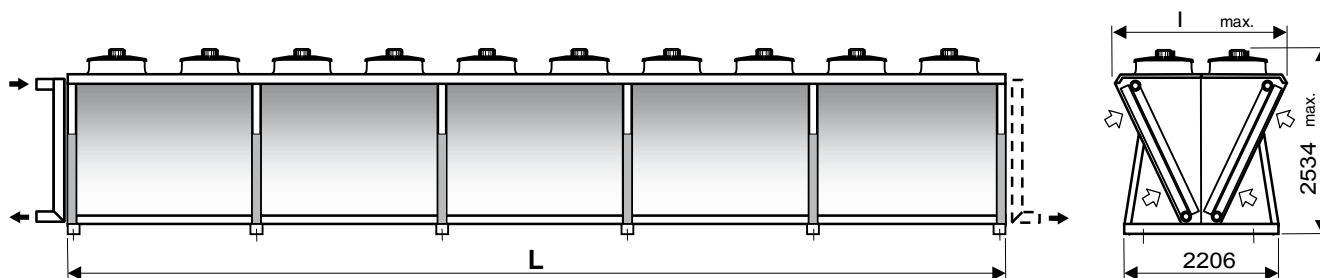
DESCRIPTION

VEXTRA™	1	16	4	UI	690	A 9A	
							Impeller diameter (8 = 800 mm, 9 = 910 mm)
							Motor type A: AC -3 ph 400 V 50 Hz E: EC
							Rotation speed
							Number of rows
							Number of fans

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 applications in coastal areas, industrial areas or highly populated areas.
	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.
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	ISO PN16 02A type rotating flanges as per DIN 2642 in 304L stainless steel up to DN100 and steel flange NFEN 1092-1 for DN125
	Counter-flanges	In 304L stainless steel up to DN100 and steel for DN125, with gaskets and bolts.
	Blade protective screen	Impact protection
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.
- The use of **variable speed drives** should be avoided, the EC motor solution should be preferred.
- **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.