



No. :

Dated : 30/09/2025

Page : 1 / 3

Customer :

Contact :

Your reference : 23163 A11

Branch : CIATIK TRADE s.r.o.

Your contact : Miroslav Němčík

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## 1 Drycooler VEXTRA 1105 UI 1000E9A 12A1

Induced draft, As per catalogue

### • THERMAL PERFORMANCES FOR 1 UNIT

Thermal capacity	535 kW
Exchange area (Thermal margin)	2 989 m <sup>2</sup> (+0,2%)
Fluid	MPG 35%
Inlet/outlet temperature	34 / 29 °C
Flow in inlet	97,92 m <sup>3</sup> /h (0,0272 m <sup>3</sup> /s)
Pressure drops	100 kPa

### Ambient air

Altitude	0 m	Standard misting V2
Dry bulb temp. / Relative humidity	35,0 °C / 39 %	Water flow rate: 0,4 kg/s (24 l/min)
		Calculation t/rh: 24,7 °C / 91 %

### • SOUND LEVEL FOR 1 UNIT (No options - For X units, add 10logX)

Sound pressure level : 66.0 dBA at 10 meters from unit,  
at 1m50 above ground, in free field, directivity 2, tolerance +/-2 dB.

Sound pressure level: reference  $2 \times 10^{-5}$  Pa, tolerance +/-2 dB.

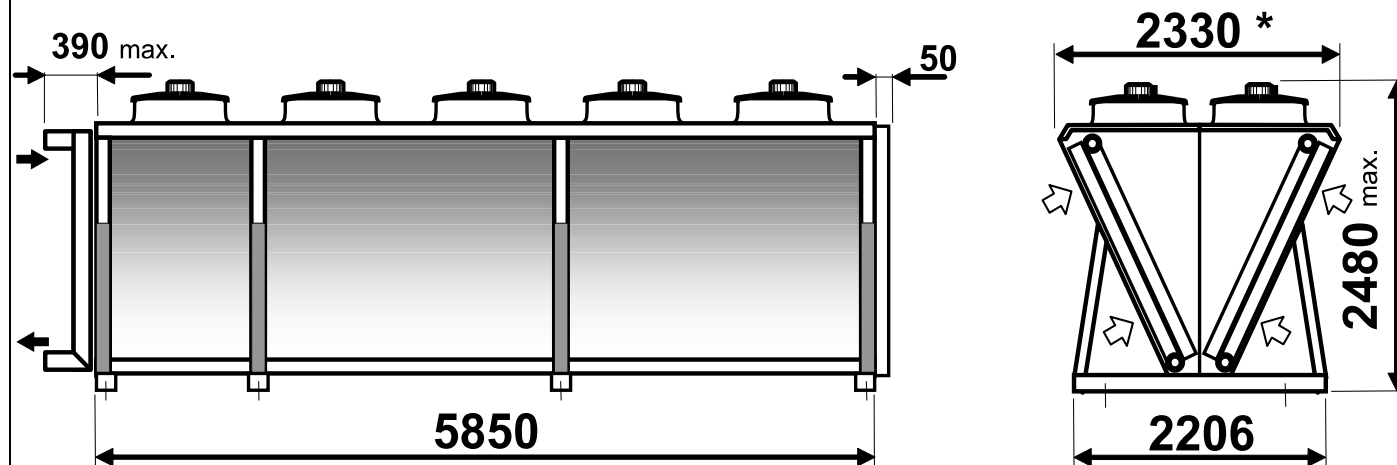
Calculated according to  $L_p = L_w - 10 \times \log S$

Sound pressure levels depend on installation conditions and are given for information only. We remind you that only sound power levels are certified and reliable values.

### Sound power spectrum (ISO 3744) :

Frequencies (Hz)	125	250	500	1000	2000	4000	8000	Overall
Sound power dB(A)	84	90	92	94	89	83	74	98,5

### • DIMENSIONS AND WEIGHT FOR 1 UNIT



\* Exact width defined after order. Up to 2420 mm depending on selections - Consult us for transport by container.

Dimensions without options - Empty Weight, options included.: 2 720 kg +/-10%



No. :

Dated : 30/09/2025

Page: 2 / 3

Your reference :

• **CHARACTERISTICS PER UNIT**

- **Casing** : painted galvanized steel sheets - Light grey RAL 7035

- **2 Identical exchanger bundles :**

Data for 1 exchange bundle:

Pipes: Copper

Fins material / coating: Pre-lacquered Aluminium

4 Pass(es) - Inlet/Outlet same side

Content : 241 dm<sup>3</sup>

PED 2014/68/UE: Article 4.3

5 Rows - fin space: 1,8 mm

In: 304L s/s flange (PN16, 02A DN 80 DIN2642)

Out: 304L s/s flange (PN16, 02A DN 80 DIN2642)

Max allowable Press./Temp.: 13 bar g. / 110 °C

- **10 Fan motor assemblies :**

rotation speed: 1000 rpm

Impeller with Aluminium + Polypropylene blades D 900 mm

Motor EC - Class F - IP54 - 400 V / 3 ph / 50 Hz

Operation : 10 x 2 790 W - 10 x 4,04 A - 1 000 rpm

Maximum : 10 x 2 980 W - 10 x 4,40 A - 1 000 rpm

Electrical connection(s): on motor terminal boxes without optional cabinet, else motors wired and connected to cabinet

• **OPTIONS AND ACCESSORIES PER UNIT**

- **Simple Aerofresh (x1)**

400 V / 3 ph / 50 Hz + N

Drinking water pressure at 3 to 4 bar, turbidity < 10 NTU - hardness < 15°F

Dimensions and weight (empty) of the unit: H=1600 x L=1200 x D=600 mm - 234 kg.

Supply:

4 stainless misting duct(s) with nozzles brass

1 x IP55 unit comprising:

- a pump: 30,0 l/min – setting 85 bar - max power 7,50 Kw. In service: power 4,95 Kw,

- water supply circuit: 3/4" connection, solenoid valve, check valve, 5µ filter, pressure gauges, pressure switch (low water level),

- a lockable isolator/disconnect switch, circuit breaker, contactor,

- unit sound power level: 80 dB(A).

Short daily misting during operating periods to prevent the formation of biofilm.

The control box is delivered separately, to be installed in a technical room or close to the unit.

The nozzles are not fixed when they are delivered, so as to prevent them from being damaged during delivery.

They are to be screwed onto the ducts on site.

Drain to protect from freezing.

An anti-bacterial treatment of the mist water is recommended.

Detailed description according to technical datasheet.

The ducts are not fixed, they are to be fixed on site following the procedure provided.

- **Set of 4 high pressure hoses for Aerofresh (x1)**

If the cabinet is installed on the unit (option only possible if VEXTRA and if flow rate is less or equal to 21 l / min), the length of 3/8" hoses will be defined by the factory during assembly.

If the box is not fitted on the unit, 3/8", unit length of 10 m for connecting the duct to the unit.

The customer shall check that the length is sufficient for its installation; other lengths are available on request.

- **Control cabinet with Aeroconnect (x1)**

400 V / 3 ph / 50 Hz + N

IP54 box made from A3G aluminium with 1 general disconnect switch for copper cables, magnetic motor fuse protection, connection of engine defects, control via board Aeroconnect, configured according to the manual provided, 1 fault summary, no. of stages with AC motors: 5,

Main functions of Aeroconnect: staged temperature control (AC motors) or temperature control governed by rotation speed (EC motors), communication by bus connection (MODBUS protocol), balancing of the stage running times (AC motors), 2 setpoints, water law based on the outdoor temperature, free cooling management, misting management, override/automatic operation controls, configurable maximum speed (EC motors), console with LCD screen facilitating parameter setting and access to operating information (setpoint, temperature, etc.) or to faults.

- **Temperature sensor (x1)**

Fluid max. 100 °C – sensor connected and fitted on the outlet piping.

- **External sensor temperature (x1)**

to be connected to the vertical unit by the customer during installation

- **Misting board (x1)**

• **INSTALLATION PRECAUTIONS** : The installer must take all necessary precautions to avoid recycling of hot air, which would reduce the performances.

• **NOTE(S)**



No. :

Dated : 30/09/2025

Page: 3 / 3

Your reference :

No chiller CIAT associated

Applicability (Press. Equipts Dir.): Air Conditionning, Refrigeration, Heat Pumps

Power consumption indicated at 20°C - it may change depending on the air temperature and voltage variations.

Maximum consumption of the unit according to the options: refer to the instructions for electrical connection.

We recommend the transport by flat truck or OPENBOX

Description	Quantity	Price per unit Without taxes EUR	Net amount Without taxes EUR
<b>VEXTRA 1105 UI 1000E9A 12A1</b>	<b>1</b>		
- Simple Aerofresh	1		
- Set of 4 high pressure hoses for Aerofresh	1		
- Control cabinet with Aeroconnect	1		
- Temperature sensor	1		
- External sensor temperature	1		
- Misting board	1		

Based on our general terms and conditions of sale in your possession.

As part of our policy of continual improvement, we reserve the right to make any technical modifications we feel necessary without prior notice.

Validity of prices: 1 month.