

Päivämäärä 15/9/2022

To the attention of:

Referenssi

Operaattori



## KAHTEENSUUNTAAN PUHALTAVAT HÖYRYSTIMET - CO2

Tyyppi: FHD 921 E 7 CO2 DX 85 Bar

Yksikköjen lukumäärä: 1

Spec. CO2 - DX

Refriger (u) 2021 Ver. 2.2.2.384 - PRICE LIST 1/5/2022

Tuleva (huone) ilman lämpötila	[°C]		4,0
Huoneen suhteellinen kosteus	[%]		85
Kylmäaine			CO2
Korkeus merenpinnasta	[m]		0
Ulkopuolinen staattinen paine	[Pa]		0
Höyrystimelle vaadittu DT 1	[K]		8,0
<b>Liitäntä</b>	<b>230V-1PH-50Hz</b>		<b>EC FANS</b>
<b>Varsinainen teho</b>	<b>[W]</b>		<b>4 500</b>
Ilmavirta	[m3/h]		3 880,0
Heittopituus	[m]		14
Lähtevän ilman lämpötila	[°C]		1,6
Höyrystymis lämpötila	[°C]		-5,3
DT Ylikuumeneminen	[K]		5,0
Lämpötila ennen ekspansiovent.	[°C]		5,0
DT1	[K]		9,3
DTmlg	[K]		8,0
Nesteen painepudotus	[K]		0,3
RC faktori ( Sensitiivinen teho/totaalinen teho)	[%]		69,3
Puhallinmoottorin kulutus	[W]		170
Moottorin virran kulutus	[A]		1,4
Maksimivirta (indicative*)	[A]		1,46
Puhallin nopeus	[1/min]		1100 (Fixed speed)
Äänitaso (5 m) 5	[dB(A)@5m]		48
Äänenvoima taso	[dB(A)]		73
Sähkösulatus (230 V)	[W]		3 200
Puhaltimien lukumäärä	[mm]	2 x 350	Paino [kg] 32
Napaisuus	[n]	<b>EC FANS</b>	Liitännät sisään / ulos [n] x [mm] 1 x 12
Lamelli jako	[mm]	7	Liitäntä ulos [n] x [mm] 1 x 16
Sisätilavuus	[dm3]	1,9	Tippuveden liitäntä ["] 3/4
Pinta	[m2]	17,5	Kokonaismitat [mm] 1 443 x 886 x 263
<b>maks työ paine</b>	<b>[bar]</b>	<b>85,0</b>	
Kotelo materiaali	Muoviaine Safashell valkoinen väri		Lamelli materiaali Al
Yhdystukkien materiaali	Cu		Putki materiaali Cu

\* Refer to LU-VE S.p.A. instruction manuals for details, data and standards. Äänen taso 5m . Virta voi muuttua riippuen lämpötilasta, kourutuskerroksesta, ulkopuolisesta painosta. Painot ja mitat ei ole voimassa kaikille mahdollisille rakenteille Kaikki puhaltimet ovat ErP 2015-myöntöväiset (Ohjesääntö 2009/125/EC energia liittyvät tuotteet). LU-VE S.p.A. reserves the right to modify and correct at any time, with or without notice, the specifications and prices listed in the Refriger software.

The certified performances and conditions in this software are in line with performances and conditions published on EUROVENT website. Those performances can be verified in [www.eurovent-certification.com](http://www.eurovent-certification.com).

The EUROVENT certification refers to the unit in standard configuration, additional options may impact on declared reference performance.

## FHD

2200 ÷ 19800 W

18 MODELS

168 VERSIONS

**Dual discharge unit coolers with standard air volume for cold rooms (S connection) and with low air velocity and low noise for laboratories, processing and preparation rooms.**

The dimensional and functional characteristics that distinguish the new range are:  
Greatly reduced electrical consumptions by using EC fan motors with permanent magnets  
Super efficient heat exchanger  
Reduced dehumidification  
Reduced frost formation  
Greatly reduced internal volume  
Low noise levels  
Very compact overall dimensions.

### BENEFIT

Unit coolers range **FHD** with new patented **JET-O-MATIC®** distributor LU-VE Contardo.

### JET-O-MATIC®

Maximum unit cooler capacity at every condition of heat load, room temperature, temperature difference and refrigerant type, specially with the new refrigerants characterized by a mixture with high gas/liquid ratio after the expansion valve.

### SUPER

Standard unit coolers range **Fhd**

### New Turbocoil 2 Heat Exchanger

The super efficient Turbocoil 2 heat exchanger has a high ratio of capacity/cost, that has been achieved by the following:

#### Tubes

New small diameter inner grooved helical, high efficiency copper tubes specially developed for the new refrigerants.

#### Turbofin 2

New aluminium high efficiency fins with special turbulence, reducing dehumidification and frost formation.

#### Fin Spacing

To satisfy all refrigeration requirements in High, Medium and Low temperature application and in different humidity conditions three new ranges of unit coolers are available

Range **3** = Fin spacing 3,0 mm

Range **4** = Fin spacing 4,5 mm

Range **7** = Fin spacing 7,0 mm

### Distributor and Refrigerant Circuit

Distributors and refrigerant circuits optimised to ensure maximum efficiency of the heat exchanger in various applications of the unit cooler.

**BENEFIT range** : **JET-O-MATIC®** distributor.

**SUPER range** : Venturi distributor.

### Suction pressure gauge connection

This allows for the checking of suction pressure and correct performance of the unit cooler.

### Fan Motors

All models use a new type of high efficiency low consumption (EC) electronic fan motors with permanent magnets, with double velocity ("S" connection 1100 rpm, "L" connection 870 rpm); incorporated internal thermal protection. The fans have been statically and dynamically balanced, fan motor assembly are wired to the unit electrical box.

#### 350 mm diameter motor assembly

Voltage 1ph 230V 50Hz (220V 60Hz)

Insulation class B

Protection IP 54.

#### Electrical box

Protection IP 54.

### Fan guard

Special attention has been given to the air flow path to provide uniform and aerodynamic air flow through the coil. All fan guards conform to the most severe European Safety Standards, thus guaranteeing maximum protection

### **Electric Defrost**

The stainless steel electric heater element permits a quick and efficient defrost of the coil. The heater elements are connected to the unit's electrical box.

#### **Electrical box**

Protection IP 54.

### **Casing**

The new designed casing is carefully constructed and painted to blend with materials normally used in cold rooms. The forms have been designed to limit the damage caused by accidental impacts. Fan guards, shrouds and side casing are manufactured in a white reinforced material which is suitable for use in low temperature coldrooms.

### **Maintenance and Cleaning**

Access to all internal parts can be achieved with one tool: all panels fitted to the unit cooler are easily removable to give all round accessibility and to make installation, cleaning or service much easier than traditional unit coolers.

### **Test**

All coils are degreased, cleaned and tested to 30 bar test pressure.

### **The units are EUROVENT certified**

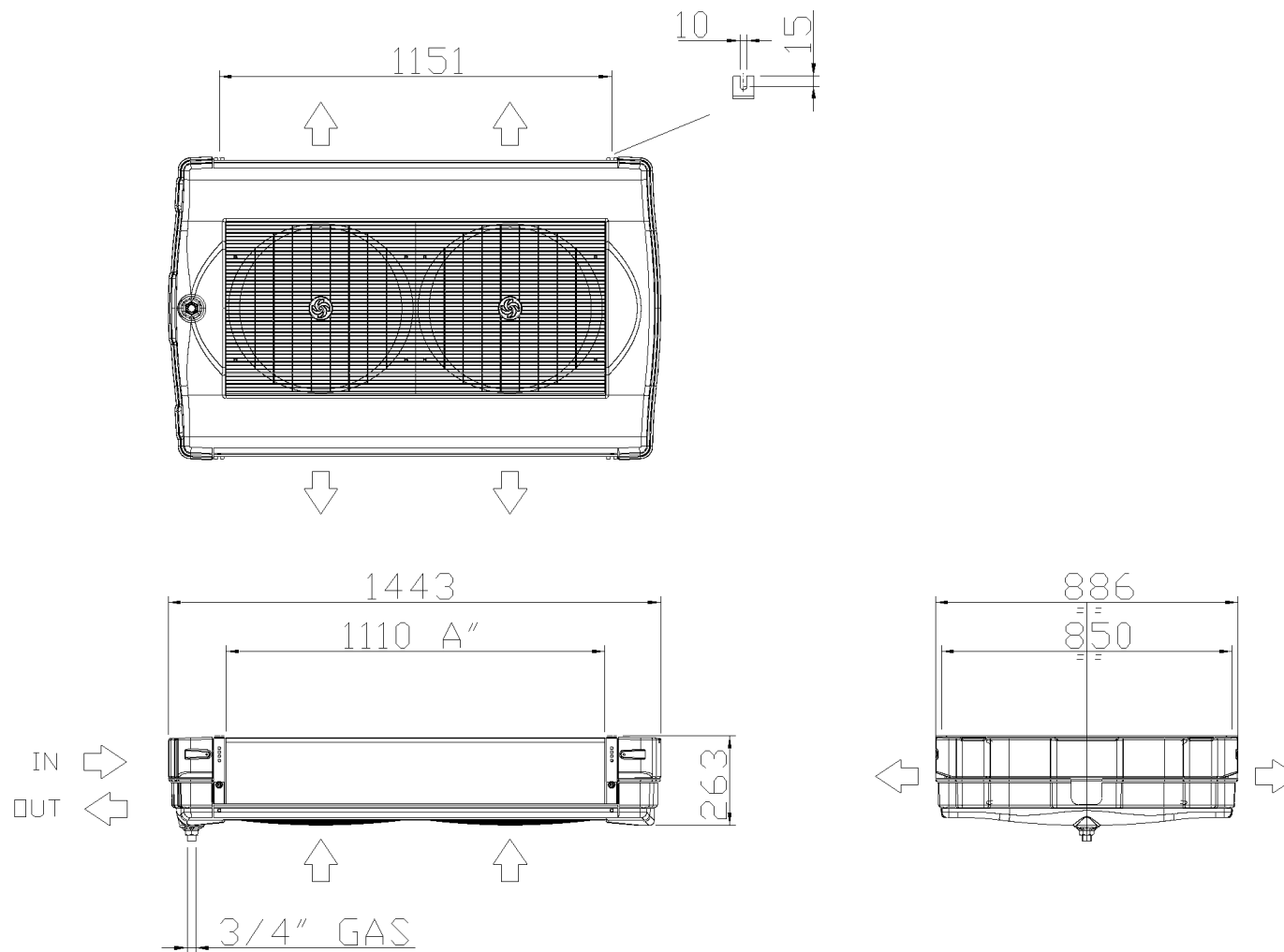
### **Design standard**

The products are provided for incorporation in machines as defined in the EC Machine Directive **2006/42/EC** and subsequent modifications according to the following safety standard references:

- Machine Directive **2004/108/EC** and subsequent modifications. Electromagnetic compatibility.
- Directive **2006/95/EC** Low tension.
- PED Directive **97/23/EC**
- **EN 294** Fan guards.

### **Quality Assurance**

LU-VE is a certificated company to UNI EN ISO9001:2000, which is the most important Quality Assurance qualification, covering Development, Testing, Production method and Inspection procedures.



Date	29-11-12	Type: FHD 921 E 7 CO2 DX 85 BAR
Scale	1:1	Code: 10130487

Standard unit without accessories. For the connections please refer to the data sheet.