

Data: 2/1/2020  
 Dla:  
 Projekt:  
 Przedstawiciel:



## CHŁODNICA SUFITOWA Z DWUSTRONNYM WYRZUTEM POW.

Model : FHD 711 E 3

Ilość urządzeń.: 1

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Powietrze - Temp. wlotowa	[°C]		0,0
Komora - Wilg. wzgl. pow.	[%]		85
Czynnik chłodniczy			R449A
Wysokość n.p.m.	[m]		0
Powietrze - Spręż dyspozycyjny	[Pa]		0
Wymagana DT1 dla chłodnicy pow. (p. nasyc.)	[K]		8,0
<b>Zasilanie el. went.:</b>	<b>230V-1PH-50Hz</b>		<b>Went. EC</b>
<b>Wydajność rzeczywista (1szt.)</b>	<b>[W]</b>		<b>3 450</b>
Powietrze - Przepływ	[m3/h]		1 800,0
Powietrze - Zasięg strumienia powietrza	[m]		11
Powietrze - Temp. wylotowa	[°C]		-4,2
Cz.Chł. - Temp. parowania (p. nasyc.)	[°C]		-8,0
Cz.Chł. - DT przegrzanie (p. nasyc.)	[K]		5,0
Cz.Chł. - Temp. przed zaworem rozprężnym	[°C]		30,0
DT1 (t. pow.na wlot - temp.parow.) (p. nasyc.)	[K]		8,0
DTmłg	[K]		5,6
Cz.Chł. - Spadek ciśnienia	[K]		1,2
Współczynnik RC (wyd. Jawna/wyd. Całkowita)	[%]		74,9
Klasa wydajności energetycznej			C
Wentylatory - Całk. pobór mocy	[W]		82
Wentylatory - Całk. pobór prądu	[A]		0,7
Wentylatory - Max całk. pobór prądu (indicative*)	[A]		0,73
Wentylatory - Obroty (punkt pracy)	[1/min]		1100
Hałas - Ciśn. akust. (w odl. 5 m)	[dB(A)]		45
Hałas - Moc akustyczna	[dB(A)]		70
Odszranianie elektryczne (230 V)	[W]		1 800
Wentylatory - Ilość x Średnica	[mm]	1 x 350	Ciężar nienapeł. urządź. [kg] 23
Wentylatory - Bieguny silników	[n]	<b>Went. EC</b>	Średnica króćca wlot. [n] x [mm] 1 x 12
Wymiennik - Podziałka lamel	[mm]	3	Średnica króćca wylot. [n] x [mm] 1 x 22
Wymiennik - Pojemność całk.	[dm3]	1,1	Śred. króć. tacy skroplin ["] 3/4
Wymiennik - Pow. zew. wym. ciepła	[m2]	19,2	Wymiary gabarytowe [mm] 888 x 886 x 263
<b>Wymiennik - Max ciśn. robocze</b>	<b>[bar]</b>	<b>24,0</b>	
Materiał obudowy	Tworz. syntetyczne Safeshell, białe	Materiał lamel	Al - aluminium
Materiał kolektorów	Cu - miedź	Materiał rurek	Cu - miedź

(normy 2014)

\* Refer to LU-VE S.p.A. instruction manuals for details, data and standards. Poziom hałasu w odl 5m na otw. przestrz. Prąd może wzrosnąć w zal. od temp., ilości szronu, zewnętrznego spadku ciśnienia. Ciężar i wymiary nie obowiązują dla wszystkich dostępnych konfiguracji. Wszystkie wentylatory spełniają normę ErP 2015 (Directive 2009/125/EC Energy-related Products). Firma LU-VE S.p.A. rezerwuje sobie prawo wprowadzania zmian w typoszeregach, specyfikacjach i cennikach zawartych w programie Refriger w dowolnym czasie, bez lub z uprzednim powiadomieniem.

LUVE S.p.A Headquarters Uboldo ITALY via caduti della Liberazione, 53

Tel +39 02 967161 Fax +39 02 96780560 mail [sales@luvegroup.com](mailto:sales@luvegroup.com) web [www.luve.it](http://www.luve.it)

Australia	USA	France	Thailand	Poland	Italy	UAE
Austria	China	Germany	India	Russia	Spain	UK & Eire

For contact details see [www.luve.it](http://www.luve.it)

## 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.