

Data: 3/1/2020  
 Dla:  
 Projekt:  
 Przedstawiciel:



## CHŁODNICA POWIETRZA KĄTOWA/REGAŁOWA

Model : FHA 53 E 50

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> 230V-1PH-50Hz			
<b>Wydajność rzeczywista (1szt.)</b>		<b>[W]</b>	<b>3 270</b>
Powietrze - Przepływ	[m <sup>3</sup> /h]		1 440,0
Powietrze - Zasięg strumienia powietrza	[m]		10
Powietrze - Temp. wylotowa	[°C]		-5,0
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]		5,1
Cz.Chł. - Spadek ciśnienia	[K]		0,5
Współczynnik RC (wyd. Jawna/wyd. Całkowita)	[%]		74,5
Klasa wydajności energetycznej			E
Wentylatory - Całk. pobór mocy	[W]		196
Wentylatory - Całk. pobór prądu	[A]		1,3
Wentylatory - Max całk. pobór prądu (indicative*)	[A]		1,3
Wentylatory - Obroty (punkt pracy)	[1/min]		1400
Hałas - Ciśn. akust. (w odl. 5 m)	[dB(A)]		44
Hałas - Moc akustyczna	[dB(A)]		69
Odszranianie elektryczne (230 V)	[W]		1 200
Wentylatory - Ilość x Średnica	[mm]	2 x 275	Ciężar nienapeł. urząd. [kg] 19
Wentylatory - Bieguny silników	[n]	4	Średnica króćca wlot. [n] x [mm] 1 x 12
Wymiennik - Podziałka lamel	[mm]	4,5	Średnica króćca wylot. [n] x [mm] 1 x 28
Wymiennik - Pojemność całk.	[dm <sup>3</sup> ]	1,7	Śred. króć. tacy skroplin ["] 3/4
Wymiennik - Pow. zew. wym. ciepła	[m <sup>2</sup> ]	10,6	Wymiary gabarytowe [mm] 1 170 x 555 x 260
<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.

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## FHA

1100 ÷ 8900 W

### Angled unit-coolers for small cold rooms.

The dimensional and functional characteristics that distinguish the new super compact - super efficient unit cooler range are:

- Super efficient heat exchanger
- Reduced dehumidification
- Reduced frost formation
- Increased air throw
- Greatly reduced internal volume
- Low noise levels
- Low energy consumption
- Very compact overall dimensions

### OPTIONS

EC FANS

**JET-O-MATIC**® distributor.

## 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.

### New Turbocoil 2 Heat Exchanger

Our 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 **32** = Fin spacing 3,1 mm

Range **50** = Fin spacing 4,8 mm

Range **80** = Fin spacing 7,7 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.

**STANDARD:** Venturi distributor.

**OPTION:** **JET-O-MATIC**® distributor.

### Suction pressure gauge connection

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

### Fan Motor Assembly

All models use a new type of high efficiency low consumption fan motor assembly, incorporating internal thermal protection. The fans have been statically and dynamically balanced, fan motor assembly are wired to the unit's electrical box.

#### 275 mm diameter motor assembly

Voltage 1ph 230V 50/60Hz

Insulation class F

Protection IP 44.

#### Electrical box

Protection IP 55.

### Fan Shroud and Grille

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

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. The casing is easily removable to give all round accessibility and to make installation, cleaning or service much easier than traditional unit coolers.

## The units are EUROVENT certified

## Design standard

The products are provided for incorporation in machines as defined in the EC Machine Directive **89/392/EEC** and subsequent modifications according to the following safety standard references:

- **EN 60/335-1 (CEI 61-50)** Safety of household and similar electrical appliances. General requirements.
- **CEI-EN 60/335-2-40** Safety of household and similar electrical appliances - Part 2: Particular requirements for electrical heat pumps, air conditioners and dehumidifiers.
- Machine Directive **89/336 EEC** and subsequent modifications. Electromagnetic compatibility.
- Directive **73/23 EEC** Low tension.
- **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.