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Introduzione

Gli scambiatori di calore aria-olio EMMEGI, sono impiegati per il raffreddamento di circuiti oleodinamici usando, come fluido raffreddante, l’aria ambiente convogliata sulla radiante da una ventola azionata da un motore elettrico o idraulico. La massa radiante, in lega d’alluminio ad alta resistenza, è ottenuta mediante un processo costruttivo di saldabrasatura sottovuoto. La particolare configurazione dei condotti aumenta la turbolenza del fluido e di conseguenza la capacità di scambio; inoltre la presenza di speciali turbolatori sull’alettatura del pacco radiante, migliora ulteriormente il coefficiente di trasmissione totale. Il risultato è un prodotto tecnologicamente avanzato di dimensioni contenute, leggero e robusto.

Fluidi compatibili

• OLIE MINERALI, HL, HLP.
• EMULSIONI ACQUA-OLIO.
• ACQUA-GLICOLE.
• Per altri fluidi consultare EMMEGI.

Specifiche tecniche Massa Radianti

• Materiale: alluminio “long life”.
• Pressione d’esercizio: 20 bar.
• Pressione di collaudo: 35 bar.
• Temperatura max d’esercizio: 120°c.
• Per particolari atmosfere aggressive consultare l’EMMEGI.

Installazione

Lo scambiatore può essere montato in posizione orizzontale o verticale, rispettando la distanza minima dalla parete (vedi fig.1), in modo da assicurare un naturale afflusso e deflusso dell’aria di raffreddamento.

Lo scambiatore è installato di norma, sulle tubazioni di ritorno dell’olio del serbatoio; deve inoltre essere protetto da urti e vibrazioni meccaniche mediante supporti e collegato all’impianto con tubazioni flessibili. È necessario evitare che sia sottoposto a brusche variazioni di portata, colpi d’ariete e pulsazioni continue che danneggiano in modo irreversibile la radiante.

Per preservare lo scambiatore dalla sovrapressione che si genera all’avviamento dell’impianto per elevata viscosità dell’olio, si suggerisce l’inserimento di una valvola di by-pass (vedi fig.2).

EMMEGI air-oil heat exchangers are used for cooling oil hydraulic systems using as the coolant ambient air that passes over the radiant by means of a fan operated by an electric or hydraulic motor.

The cooler element, in high resistance aluminium alloy, is obtained by means of a braze-welding process carried out under vacuum. The particular configuration of the cooling pipes increase the turbulence of the fluid consequently of the exchange capacity; moreover, the presence of special jets on the cooler finning further improves the total transmission coefficient. The result is a very small, light and robust technologically advanced product.

Compatible fluids

• MINERAL OILS, HL, HLP.
• WATER-OIL EMULSION.
• WATER-GLYCOL.
• Consults EMMEGI for other fluids.

Technical specification of Cooler Element

• Material: “long life” aluminium.
• Operating pressure: 20 bar.
• Test pressure: 35 bar.
• Max operating temperature: 120°c.
• For specially “aggressive” atmospheres contact EMMEGI.

Installation

The exchanger can be fitted in a horizontal position, respecting the minimum distance from the wall (see fig.1) so as to ensure a natural flow of cooling air. The exchanger is usually installed on oil tank return piping; it must also be protected from impacts and mechanical vibrations by supports and must be connected to the plant with flexible pipes.

Avoid subjecting the exchanger to sudden changes in flow, hammering and pulsations that can cause irreversible damage to the element.

We recommend installing a by-pass valve (see fig.2) to protect the exchanger from over-pressure generated when the plants is started up due to high oil viscosity.
**Manutenzione**

È buona norma prestare particolare attenzione alla pulizia della massa radiante per garantire un naturale ricambio d’aria, ed evitare una diminuzione dell’efficienza termica.

**Pulizia lato olio**

Per eseguire la pulizia lato olio, lo scambiatore dovrà essere smontato. Lo sporco può essere rimosso flussando in controcorrente un prodotto sgrassante, compatibile con alluminio. Effettuare un lavaggio con olio idraulico prima di ricollegare il prodotto all’impianto.

**Pulizia lato aria**

La pulizia lato aria può essere effettuata con aria compressa o acqua, con direzione del getto parallelo alle alette per non danneggiarle. Lo sporco oleoso o grasso può essere rimosso con getto di vapore o acqua calda. Durante questa operazione, il motore elettrico non deve essere collegato alla tensione, e dovrà essere adeguatamente protetto.

**Esempio di scelta dello scambiatore**

Per effettuare la scelta dello scambiatore si procede come segue:

<table>
<thead>
<tr>
<th>Potenza da dissipare :</th>
<th>19,5 [KW]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portata olio ISO VG 32 :</td>
<td>90 [lpm]</td>
</tr>
<tr>
<td>Temperatura ingresso olio :</td>
<td>60 [°C]</td>
</tr>
<tr>
<td>Temperatura ambiente :</td>
<td>30 [°C]</td>
</tr>
<tr>
<td>Ventola azionata da motore elettrico 230/400V-50Hz.</td>
<td></td>
</tr>
</tbody>
</table>

Si calcola la potenza specifica di scambio espressa in KW/°C, conoscendo la potenza da dissipare e il $\Delta T$ (differenza tra la temperatura olio ingresso e la temperatura ambiente).

\[
P = \frac{19,5 \text{ KW}}{60^\circ-30^\circ} = 0,65 \text{ KW/°C}
\]

Nota la portata olio (90 lpm) e la potenza specifica di scambio (0,65 KW/°C) si procede alla ricerca del prodotto avvalendosi dei grafici riportati a catalogo, relativi ai singoli modelli.

**Maintenance**

You should be particularly carefully in cleaning the cooler element to guarantee a natural exchange of air, in order to prevent a reduction in thermal efficiency.

**Cleaning oil side**

The exchanger should be dismantled to clean on the oil side. The dirt can be removed by flushing, in counter-current, de-greasing substance, compatible with aluminium. Wash with hydraulic oil before re-connecting the product to the plant.

**Cleaning air side**

Cleaning on the air side can be done using compressed air or water, directing the jet parallel to the fins so as not to damage them. Oily dirt or grease can be removed with a jet of steam or hot water. During this operation, the electric motor must be disconnected from the voltage supply, and must be adequately protected.

**Example of how to choose a heat exchanger**

Proceed with sizing the exchanger, with a knowledge of the data as the example below shows:

<table>
<thead>
<tr>
<th>Power to dissipate :</th>
<th>19,5 [KW]</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO VG 32 oil flow :</td>
<td>90 [lpm]</td>
</tr>
<tr>
<td>Oil input temperature :</td>
<td>60 [°C]</td>
</tr>
<tr>
<td>Ambient temperature :</td>
<td>30 [°C]</td>
</tr>
<tr>
<td>Fan operating with an electric motor 230/400V-50Hz.</td>
<td></td>
</tr>
</tbody>
</table>

You can then calculate the specific heat exchange power KW/°C if you know the power to dissipate and the $\Delta T$ (the difference between the oil input temperature and the ambient temperature).

\[
P = \frac{19,5 \text{ KW}}{60^\circ-30^\circ} = 0,65 \text{ KW/°C}
\]

Note the oil flow (90lpm) and specific exchange power (0,65 KW/°C), product research is made by referring to the graph in the catalogue which is relevant to each model.
Dati tecnici  

Technical Data

<table>
<thead>
<tr>
<th>P/N</th>
<th>V</th>
<th>Hz</th>
<th>kW</th>
<th>A</th>
<th>rpm</th>
<th>Ø Fan</th>
<th>dB(A)</th>
<th>(m³/h)</th>
<th>IP</th>
<th>lt</th>
<th>Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>243003###</td>
<td>230-400 B14 AC</td>
<td>50/60</td>
<td>0,750</td>
<td>1,8</td>
<td>1450</td>
<td>450</td>
<td>82</td>
<td>4000</td>
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<td>37</td>
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<tr>
<td>243012###</td>
<td>12 DC</td>
<td>/</td>
<td>0,150</td>
<td>9,5</td>
<td>3100</td>
<td>280</td>
<td>74</td>
<td>1550</td>
<td>68</td>
<td>32</td>
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</tr>
<tr>
<td>243024###</td>
<td>24 DC</td>
<td>/</td>
<td>0,150</td>
<td>5,6</td>
<td>3100</td>
<td>280</td>
<td>78</td>
<td>1700</td>
<td>68</td>
<td>32</td>
<td></td>
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<tr>
<td>243056###</td>
<td>Prepared for Gr.2 hydraulic motor</td>
<td>/</td>
<td>/</td>
<td>450</td>
<td>450</td>
<td>450</td>
<td>/</td>
<td>450</td>
<td>35</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Lo scambiatore selezionato risulta il modello: HPA 30 – 230/400V – 50Hz cod. 243003###.

Per la completa identificazione dello scambiatore consultare la pagina "DENOMINAZIONE CODICE PRODOTTO". Nel caso non siano conosciuti tutti i dati, per la scelta prendere contatto EMMEGI.

Diagramma rendimento  

Performance diagram

The exchanger selected is the following model: HPA 30 – 230/400V – 50Hz cod. 243003###.

For a complete description of the exchanger consult the "PRODUCT ORDERING CODE" page. If you do not know all the data required for selecting the model, contact EMMEGI.

Contattare EMMEGI. Contact EMMEGI.
Collegamenti elettrici

Electric Wiring

230V AC 1 PHASE

230V AC 3 PHASE

12-24V DC

400V AC 3 PHASE

°C = Termostato NA./Thermostat NO.
K = Relé/Relay
Modulo richiesta dati

Sheet for cooler selection

<table>
<thead>
<tr>
<th>CLIENTE</th>
<th>COMPANY</th>
</tr>
</thead>
<tbody>
<tr>
<td>RICHIEDENTE</td>
<td>NAME</td>
</tr>
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<table>
<thead>
<tr>
<th>ARIA-Olio</th>
<th>AIR-OIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>PORTATA OLIO</td>
<td>OIL FLOW RATE</td>
</tr>
<tr>
<td>POTENZA INSTALLATA</td>
<td>TOTAL POWER</td>
</tr>
<tr>
<td>POTENZA DA DISSIPARE</td>
<td>POWER TO BE DISSIPATED</td>
</tr>
<tr>
<td>TEMPERATURA INGRESSO OLIO</td>
<td>OIL TEMPERATURE INLET</td>
</tr>
<tr>
<td>TEMPERATURA ARIA MAX</td>
<td>MAX AMBIENT TEMPERATURE</td>
</tr>
<tr>
<td>VISCOSITÀ OLIO</td>
<td>OIL VISCOSITY</td>
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<tr>
<td>PRESSIONE DI LAVORO</td>
<td>WORKING PRESSURE</td>
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<table>
<thead>
<tr>
<th>TIPO DI VENTILAZIONE</th>
<th>TYPE OF FAN UNIT</th>
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<tbody>
<tr>
<td>CORRENTE CONTINUA</td>
<td>DIRECT CURRENT</td>
</tr>
<tr>
<td>PREDISPOSTO MOTORE IDRAULICO</td>
<td>PREPARED FOR HYDRAULIC MOTOR</td>
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<tr>
<td>CORRENTE ALTERNATA</td>
<td>ALTERNATE CURRENT</td>
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<tr>
<td>12V</td>
<td></td>
</tr>
<tr>
<td>GR. 2</td>
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<td>24V</td>
<td></td>
</tr>
<tr>
<td>GR. 3</td>
<td></td>
</tr>
<tr>
<td>MONOFASE 230V</td>
<td>SINGLEPHASE 230V</td>
</tr>
<tr>
<td>TRIFASE 230/400V</td>
<td>THREEPHASE 230/400V</td>
</tr>
<tr>
<td>TENSIONE SPECIALE</td>
<td>SPECIAL VOLTAGE</td>
</tr>
<tr>
<td>50 HZ</td>
<td></td>
</tr>
<tr>
<td>60 HZ</td>
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### CATALOGO PRODOTTI  
### PRODUCTS CATALOGUE

#### Denominazione codice prodotto  
#### Ordering code

**Aria-olio Serie HPA**  
**Air-oil HPA Series**

<table>
<thead>
<tr>
<th>TIPO DI SISTEMA</th>
<th>COOLER SERIES</th>
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<tbody>
<tr>
<td>424</td>
<td>(HPA 24)</td>
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</table>

<table>
<thead>
<tr>
<th>TIPO DI MOTORIZZAZIONE</th>
<th>FAN MOTOR TYPE</th>
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<tbody>
<tr>
<td>03</td>
<td>AC 230V-400V 50-60 Hz (B14)</td>
</tr>
<tr>
<td>12</td>
<td>DC 12V</td>
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<tr>
<td>24</td>
<td>DC 24V</td>
</tr>
<tr>
<td>54</td>
<td>Pred. per mot. idr. gr. 1  Prep. for hydr. mot. gr. 1</td>
</tr>
<tr>
<td>56</td>
<td>Pred. per mot. idr. gr. 2  Prep. for hydr. mot. gr. 2</td>
</tr>
<tr>
<td>58</td>
<td>Pred. per mot. idr. gr. 3  Prep. for hydr. mot. gr. 3</td>
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<table>
<thead>
<tr>
<th>TERMOSTATI</th>
<th>THERMOSTATS</th>
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<tr>
<td>1</td>
<td>Termostato fisso  Fixed thermostat  40-28°</td>
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<tr>
<td>2</td>
<td>Termostato fisso  Fixed thermostat  50-38°</td>
</tr>
<tr>
<td>3</td>
<td>Termostato fisso  Fixed thermostat  60-48°</td>
</tr>
<tr>
<td>4</td>
<td>Termostato fisso  Fixed thermostat  70-58°</td>
</tr>
<tr>
<td>5</td>
<td>Termostato fisso  Fixed thermostat  80-68°</td>
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<tr>
<td>6</td>
<td>Termostato fisso  Fixed thermostat  90-78°</td>
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<tr>
<td>8</td>
<td>Termostato regolabile  Adjustable thermostat  0-120° (TC2)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TIPO DI VENTILAZIONE</th>
<th>VENTILATING TYPE</th>
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</thead>
<tbody>
<tr>
<td>01</td>
<td>Aspirante  Suction air flow</td>
</tr>
<tr>
<td>02</td>
<td>Soffiante  Blowing air flow</td>
</tr>
</tbody>
</table>
Indice

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- HPA 18 pag. 10-11
- HPA 24 pag. 12-13
- HPA 30 pag. 14-15
- HPA 36 pag. 16-17
- HPA 42 pag. 18-19
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- HPA 44/3 pag. 48-49
**Dimensioni Dimensions**

**HPA 12**

Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative.

*Over-all dimensions and technical characteristic are not binding*
Dati tecnici  Technical Data

<table>
<thead>
<tr>
<th>P/N</th>
<th>V</th>
<th>Hz</th>
<th>kW</th>
<th>A</th>
<th>rpm</th>
<th>ø Fan</th>
<th>dB(A)</th>
<th>(m³/h)</th>
<th>IP</th>
<th>lt</th>
<th>Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>241203###</td>
<td>230-400 B14 AC</td>
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<td>0,250</td>
<td>0,7</td>
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<td>315</td>
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<td>1670</td>
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<td>305</td>
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<td>80</td>
<td>1700</td>
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<td>315</td>
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<td></td>
<td>16</td>
</tr>
</tbody>
</table>

Contattare EMMEGI  Contact EMMEGI

Diagramma rendimento  Performance diagram

Perdite di carico  Pressure drop (ISO VG 32)

Fattore di correzione - F - (perdite di carico)  Correction factor - F - (Pressure drop)
Dimensioni Dimensions

Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative

Over-all dimensions and technical characteristic are not binding
**Dati tecnici** Technical Data

**Technical Data**

<table>
<thead>
<tr>
<th>P/N</th>
<th>V</th>
<th>Hz</th>
<th>kW</th>
<th>A</th>
<th>rpm</th>
<th>dB(A)</th>
<th>(m³/h)</th>
<th>IP</th>
<th>It</th>
<th>Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>241803###</td>
<td>230-400 AC</td>
<td>50/60</td>
<td>0,370</td>
<td>0,95</td>
<td>1450</td>
<td>400</td>
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<tr>
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<td>12 DC</td>
<td>/</td>
<td>0,210</td>
<td>13,3</td>
<td>2500</td>
<td>385</td>
<td>2950</td>
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<td>/</td>
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<td>9,3</td>
<td>2500</td>
<td>385</td>
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<td>68</td>
<td>18</td>
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</tr>
<tr>
<td>241856###</td>
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<td>400</td>
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<td></td>
</tr>
</tbody>
</table>

**Diagramma rendimento** Performance diagram

**Perdite di carico** Pressure drop (ISO VG 32)

**Fattore di correzione - F - (perdite di carico)** Correction factor - F - (Pressure drop)

<table>
<thead>
<tr>
<th>cst</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>30</th>
<th>40</th>
<th>50</th>
<th>60</th>
<th>80</th>
<th>100</th>
<th>200</th>
<th>300</th>
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</thead>
<tbody>
<tr>
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<td>0,65</td>
<td>0,77</td>
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<td>1,2</td>
<td>1,4</td>
<td>1,6</td>
<td>1,9</td>
<td>2,1</td>
<td>3,3</td>
<td>4,3</td>
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</tbody>
</table>

Contattare EMMEGI Contact EMMEGI
Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative
Over-all dimensions and technical characteristic are not binding
Dati tecnici Technical Data

<table>
<thead>
<tr>
<th>P/N</th>
<th>V</th>
<th>Hz</th>
<th>kW</th>
<th>A</th>
<th>rpm</th>
<th>ø Fan</th>
<th>dB(A)</th>
<th>(m³/h)</th>
<th>IP</th>
<th>Lt</th>
<th>Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>242403###</td>
<td>230-400 B14 AC</td>
<td>50/60</td>
<td>0,550</td>
<td>1,35</td>
<td>1450</td>
<td>400</td>
<td>79</td>
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<tr>
<td>242412###</td>
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<td>0,210</td>
<td>13,2</td>
<td>2500</td>
<td>385</td>
<td>77</td>
<td>2100</td>
<td>68</td>
<td>22</td>
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</tr>
<tr>
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<td>24 DC</td>
<td>/</td>
<td>0,210</td>
<td>8,4</td>
<td>2500</td>
<td>385</td>
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Diagramma rendimento Performance diagram

Perdite di carico Pressure drop (ISO VG 32)

Fattore di correzione - F - (perdite di carico) Correction factor - F - (Pressure drop)
Dimensioni Dimensions

Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative
*Over-all dimensions and technical characteristic are not binding*
Dati tecnici  
Technical Data

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<th>A</th>
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<th>m³/h</th>
<th>IP</th>
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Per il 12-24V i dati sono riferiti al singolo ventilatore  
For 12-24 V the data refers to each ventilator

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Diagramma rendimento  
Performance diagram

Perdite di carico  
Pressure drop (ISO VG 32)

Fattore di correzione - F - (perdite di carico)  
Correction factor - F - (Pressure drop)
Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative
Over-all dimensions and technical characteristic are not binding
Dati tecnici  
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Per il 12-24 V i dati sono riferiti al singolo ventilatore. For 12-24 V the data refers to each ventilator.

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Diagramma rendimento  
**Performance diagram**

**Perdite di carico**  
**Pressure drop (32 CST)**

**Fattore di correzione - F - (perdite di carico)**  
**Correction factor - F - (Pressure drop)**
Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative
Over-all dimensions and technical characteristic are not binding
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Contact EMMEGI

### Diagramma rendimento  
**Performance diagram**

### Perdite di carico  
**Pressure drop (ISO VG 32)**

### Fattore di correzione - F - (perdite di carico)  
**Correction factor - F - (Pressure drop)**
Over-all dimensions and technical characteristic are not binding

Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative
Dati tecnici  
*Technical Data*

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**Diagramma rendimento  
*Performance diagram***

**Perdite di carico  
*Pressure drop (ISO VG 32)***

**Fattore di correzione - F - (perdite di carico)  
*Correction factor - F - (Pressure drop)***

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Dimensioni Dimensions

Brather Ø1/4” BSP

N.4 Holes Ø14

Ø1/2”BSP (Thermostat)

N.2 Ø1 1/2”BSP

Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative

Over-all dimensions and technical characteristic are not binding
**Dati tecnici** Technical Data

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<th>A</th>
<th>rpm</th>
<th>ø Fan</th>
<th>dB(A)</th>
<th>(m³/h)</th>
<th>IP</th>
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<th>Kg</th>
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<td>2,82</td>
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**Diagramma rendimento** Performance diagram

**Perdite di carico** Pressure drop (32 CST)

**Fattore di correzione - F - (perdite di carico)** Correction factor - F - (Pressure drop)
Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative

*Over-all dimensions and technical characteristic are not binding*
Dati tecnici  
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Contact EMMEGI

**Diagramma rendimento  
Performance diagram**

**Perdite di carico  
Pressure drop (ISO VG 32)**

**Fattore di correzione - F - (perdite di carico)  
Correction factor - F - (Pressure drop)**
Dimensioni  Dimensions

Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative

*Over-all dimensions and technical characteristic are not binding*
Dati tecnici  

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<th>P/N</th>
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<th>rpm</th>
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<th>dB(A)</th>
<th>(m³/h)</th>
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<td>82</td>
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<td>12 DC</td>
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<td>9,5</td>
<td>3100</td>
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Per il 12-24V i dati sono riferiti al singolo ventilatore. For 12-24 V the data refers to each ventilator.

Diagramma rendimento  

Perdite di carico  

Fattore di correzione - F - (perdite di carico)
Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative
Over-all dimensions and technical characteristic are not binding
Dati tecnici  

Technical Data

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<th>rpm</th>
<th>ø Fan</th>
<th>dB(A)</th>
<th>(m³/h)</th>
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<th>Kg</th>
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Per 12-24V i dati sono riferiti al singolo ventilatore  

For 12-24 V the data refers to each ventilator

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Diagramma rendimento  

Performance diagram

Perdite di carico  

Pressure drop (32 CST)

Fattore di correzione - F - (perdite di carico)  

Correction factor - F - (Pressure drop)
Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative
Over-all dimensions and technical characteristic are not binding
**Dati tecnici** Technical Data

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**Diagramma rendimento** Performance diagram

**Perdite di carico** Pressure drop (ISO VG 32)

**Fattore di correzione - F - (perdite di carico)** Correction factor - F - (Pressure drop)

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<td>4,3</td>
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Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative

*Over-all dimensions and technical characteristic are not binding*
Dati tecnici  
*Technical Data*

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<th>kW</th>
<th>A</th>
<th>rpm</th>
<th>Ø Fan</th>
<th>dB(A)</th>
<th>(m³/h)</th>
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<th>Kg</th>
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Diagramma rendimento  
*Performance diagram*

Perdite di carico  
*Pressure drop (ISO VG 32)*

Fattore di correzione - F - (perdite di carico)  
*Correction factor - F - (Pressure drop)*

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Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative

*Over-all dimensions and technical characteristic are not binding*
### Technical Data

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Contattare EMMEGI Contact EMMEGI

### Performance diagram

### Pressure drop (32 CST)

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### Correction factor - F - (Pressure drop)
Over-all dimensions and technical characteristic are not binding

Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative
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*Contattare EMMEGI Contact EMMEGI*

**Diagramma rendimento** Performance diagram

**Perdite di carico** Pressure drop (ISO VG 32)

**Fattore di correzione - F - (perdite di carico)** Correction factor - F - (Pressure drop)
Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative

Over-all dimensions and technical characteristic are not binding
Dati tecnici  

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I dati sopraindici sono riferiti al singolo ventilatore  The data refers to each ventilator

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**Diagramma rendimento**  

**Performance diagram**

**Perdite di carico**  

**Pressure drop (32 CST)**

**Fattore di correzione - F - (perdite di carico)**  

**Correction factor - F - (Pressure drop)**

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Over-all dimensions and technical characteristic are not binding

Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative

N.4 Holes Ø1/2" BSP(Thermostat)
### Dati tecnici  Technical Data

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I dati sopraindiciati sono riferiti al singolo ventilatore. The data refers to each ventilator.

Contattare EMMEGI Contact EMMEGI

### Diagramma rendimento  Performance diagram

![Performance diagram](image)

### Perdite di carico  Pressure drop (ISO VG 32)

![Pressure drop graph](image)

### Fattore di correzione - F - (perdite di carico)  Correction factor - F - (Pressure drop)

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Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative
Over-all dimensions and technical characteristic are not binding
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I dati sopra riportati sono riferiti al singolo ventilatore. The data refers to each ventilator.

Contattare EMMEGI. Contact EMMEGI.

**Diagramma rendimento** Performance diagram

**Perdite di carico** Pressure drop (ISO VG 32)

**Fattore di correzione - F - (perdite di carico)** Correction factor - F - (Pressure drop)
**Dimensioni** Dimensions

Over-all dimensions and technical characteristic are not binding.

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Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative

Over-all dimensions and technical characteristic are not binding.
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I dati soprainferiti sono riferiti al singolo ventilatore. The data refers to each ventilator.

Contact EMMEGI

### Diagramma rendimento  
**Performance diagram**

![Performance Diagram](image)

### Perdite di carico  
**Pressure drop (32 CST)**

![Pressure Drop Graph](image)

### Fattore di correzione - F - (perdite di carico)  
**Correction factor - F - (Pressure drop)**

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Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative
*Over-all dimensions and technical characteristic are not binding*
Dati tecnici *Technical Data*

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<th>(m³/h)</th>
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I dati soprariportati sono riferiti al singolo ventilatore *The data refers to each ventilator*

**Diagramma rendimento** *Performance diagram*

**Perdite di carico** *Pressure drop (ISO VG 32)*

**Fattore di correzione - F - (perdite di carico)** *Correction factor - F - (Pressure drop)*

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Le dimensioni di ingombro e le caratteristiche tecniche non sono impegnative
Over-all dimensions and technical characteristic are not binding
**Dati tecnici** Technical Data

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I dati sopra riportati sono riferiti al singolo ventilatore. The data refers to each ventilator.

**Diagramma rendimento** Performance diagram

**Perdite di carico** Pressure drop (ISO VG 32)

Fattore di correzione - F - (perdite di carico) Correction factor - F - (Pressure drop)