

# SOLUTII COMPLETE CU AGREGATE DE RACIRE DAIKIN



*DAIKIN AIRCONDITIONING CENTRAL EUROPE-ROMANIA SRL*

## Actiuni lansate de Daikin Industries Ltd.

- 
- **Extinderea acoperirii cerintelor pietii**
  - **Solutii coplete diversificate**

- ▶ Extinderea gamei de agregate de racire
- ▶ Extinderea gamei de ventiloconvectoare.
- ▶ Diponibilitatea livrarii altor produse

Asigurarea unui nivel ridicat al calitatii produselor si serviciilor oferite prin exercitarea controlului total de catre **DAIKIN**

## Racire de proces:

- ▶ Depozite si instalatii din industria vinului, industria alimentara
- ▶ Industria de medicamente,
- ▶ Procese industriale, ...

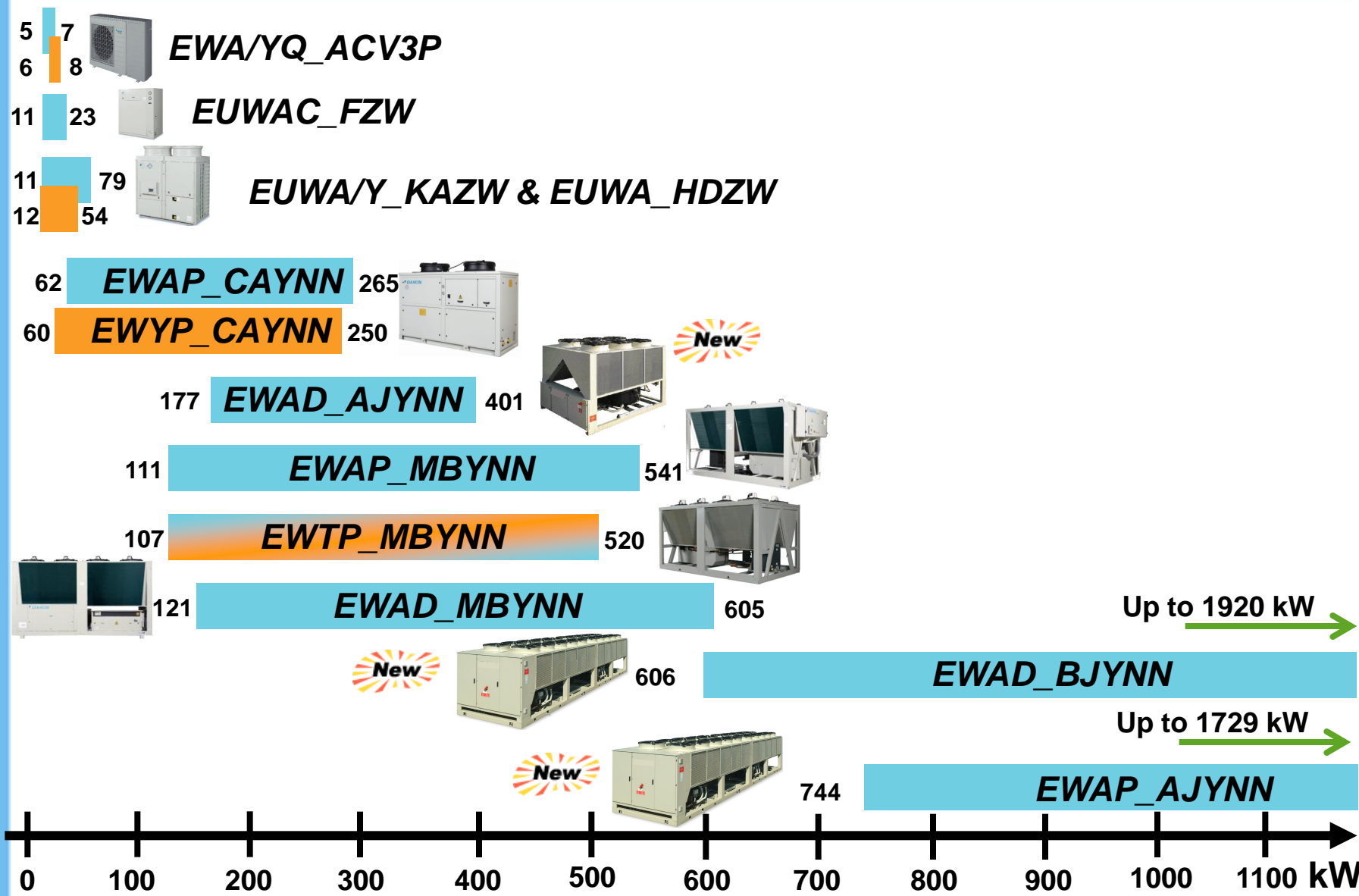
## Comfort

- ▶ Rezidentiale, birouri, hoteluri, restaurante, magazine, sali de sport
- ▶ Sali spectacole, ...



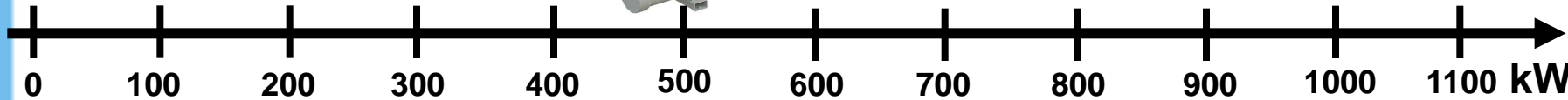
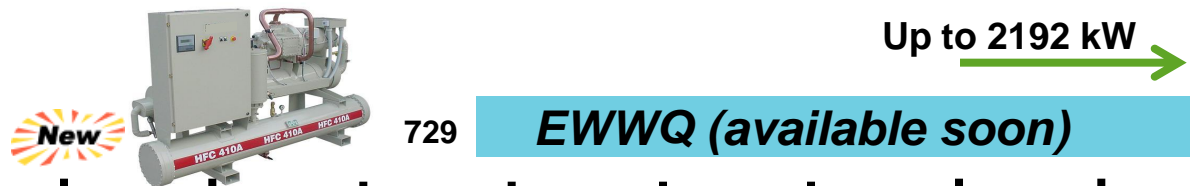


# Agregate racite cu aer- Gama produse



# Agregate racite cu apa – Gama produse

(\* *Cu condensator la distanta*)



# Agregate racite cu aer

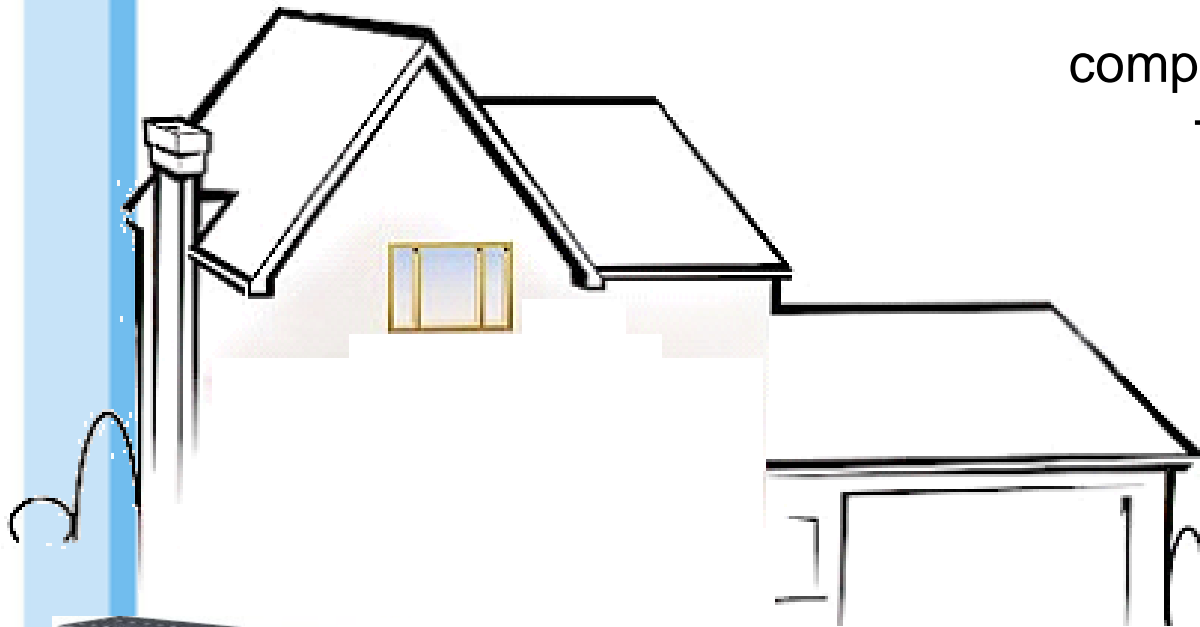
## Agregate de racire mici

compresoare rotative (swing):  
Tehnologie Daikin

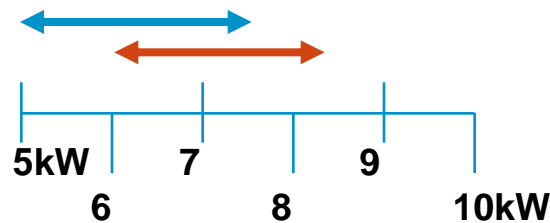


**INVERTER**

**R-410A**



**EWAQ005-007AAV3P**





## Compressoare spirala (scroll)



Ventilator centrifugal-montaj interior

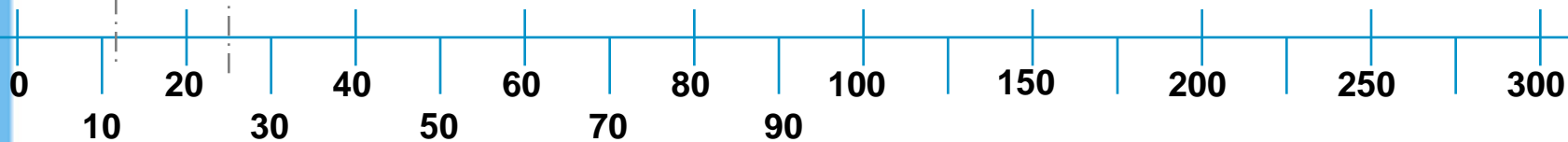
**EUWAC 5~10 FZW**

**R-407C**



**EUWA N,P,B 5~24 KAZW**

**EWAP060~260CAYNN**



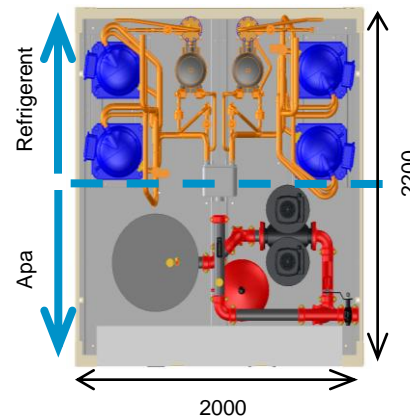
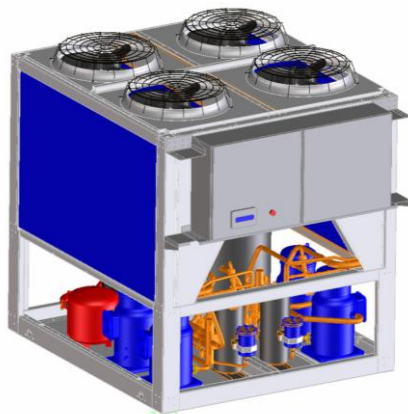
## In dezvoltare

### *EWAQ\_DAYNN & EWYQ\_DAYNN*

- Multiple scroll technology
- Componente hidraulice incluse
- Vana de expansie electronica
- 2 versiuni, numai racire , pompa de caldura,
- Gama de capacitati: 75 - 260 kW
- Lansare : sfarsitul anului 2007



**R-410A**





## Agregate cu compresoare spirala

Modul hidraulic extern



**EWWP014~065KAW1N**

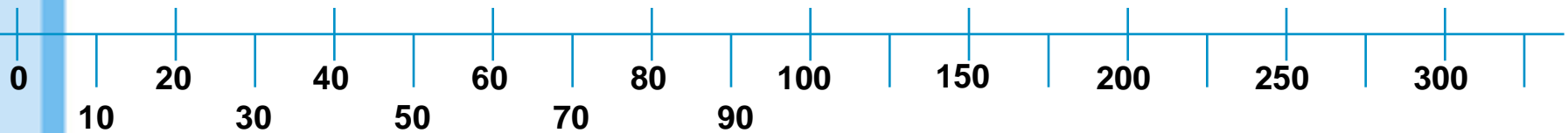


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\*

**Optiuni (\*):**  
**EWWP045~065KAW1M**  
**ECB~MUW**



**Cu condensator la distanta**

**EWLP012~065KAW1N**

**R-407C**

# Agregate racite cu aer

*Reglaj continuu de capacitate*

## Compresoare cu surub



**R-407C**



**EWAP110~540MBYNN**

**EWAP800~C18AJYNN**

100

500

1000

1500

2000

**EWAD120~600MBYNN**

**EWAD550~C21BJYNN**



**R-134a**

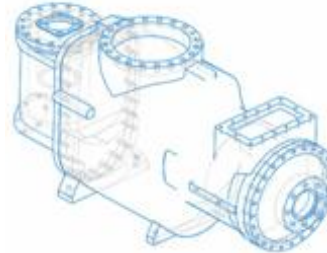
**EWAD190~460MBYNN**



## EWAD190-360AJYNN



**R-134a**



**Compresor  
monosurub**



- reglaj continuu de capacitate
- separator de ulei integrat
- vana de izolare pe refulare
- constructie semiermetica
- pornire Y - Δ standard
- motor racit cu vapori reci (aspiratie)

- Capacitati: 177 – 401 kW
- 2 versiuni: Standard EER pana la 2,77 si Clasa A EER pana la 3,13
- 2 circuite independente de agent frigorific
- Evaporator:tevi in manta – o trecere pe partea agentului frigorific
- 4 clase de nivele de zgomot (ST-OPRN-OPLN-Q/Z): L(w) pana la 84 dB(A)



## EWAD650-C18BJYNN



**R-134a** 

- reglaj continuu de capacitate
- clapeta pe refluxare
- constructie semiermetica
- pornire Y - D standard
- motor racit cu vapori reci (aspiratie)



**Compresor  
monosurub**

- Capacitati: 606 – 1920 kW
- 2 versiuni: Standard EER pana la 2,93 si Clasa A EER pana la 3,32
- 2-3-4 circuite independente de agent frigorific
- Evaporator: tevi in manta – o trecere pe partea agentului frigorific
- 4 clase de nivele de zgomot (ST-OPRN-OPLN-Q/Z): L(w) pana la 85 dB(A)

**New** EWAP800-C18AJYNN



**R-407C**



- reglaj continuu de capacitate
- clapeta pe refluxare
- constructie semiermetica
- pornire Y - D standard
- motor racit cu vapori reci (aspiratie)



**Compressor  
monosurub**

- Capacitati: 744 – 1729 kW
- 2 versiuni: Standard EER pana la 2,34 si Clasa A EER pana la 2,69
- 2-3 circuite independente de agent frigorific
- Evaporator: tevi in manta – o trecere pe partea agentului frigorific
- 3 clase de nivele de zgomot (ST-OPRN-OPLN): L(w) pana la 93 dB(A)

► Eficienta frigorifica - clase:

- Standard
- Clasa **A** de eficienta



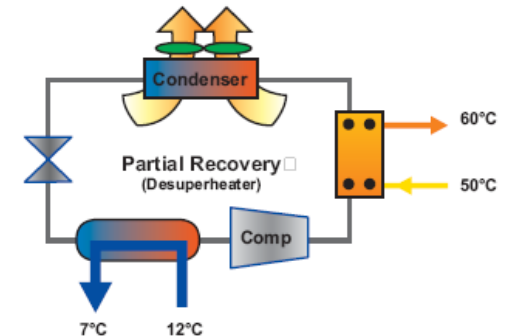
Exemplu:

**EWAD340AJYNN**  
*EER: 2,6*

**EWAD340AJYNN/A**  
*EER: 3,16*

► Clase de recuperare:

- OPTR: Recuperare totala de caldura
- OPPR: recuperare partiala de caldura



- ▶ Configuratii – nivel de zgomot:
  - ▶ Versiunea standard
  - ▶ Versiunea standard + **OPRN** (*OPtion Reduced Noise*)
  - ▶ Versiunea standard + **OPLN** (*OPtion Low Noise*)
  - ▶ **Q**uiet version
- ▶ Combinatia optima eficienta + nivel redus de zgomot

- ▶ **Versiunea Z**

*Exemplu:*

**EWAD900BJYNN/Z**

*L(w): 87,7 dB(A)*

*EER: 2,7*

## ▣ Versiunea standard



**Ventilatoare elicoidale (860 or 900 RPM)**



**Suporti antivibratie compresor**



**Garnituri speciale de cauciuc**

**Exemplu:**

**EWAD900BJYNN**

***L(w): 100,9 dB(A)***

***Length: 6.210 mm***

***Weight: 5.834 kg***

## ► Versiunea standard +OPRN



Exemplu:

**EWAD900BJYNN + OPRN**

***L(w): 96,9 dB(A)***

***Length: 6.210 mm***

***Weight: 5.834 kg***



**Ventilatoare elicoidale (680 RPM)**



**Supri antivibratie compresor**



**Garnituri speciale de cauciuc**



**Conducta flexibila pe refulare**

## ► Versiunea standard +OPLN



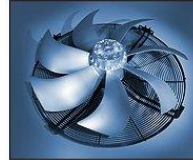
Exemplu:

**EWAD900BJYNN + OPLN**

***L(w): 93,4 dB(A)***

***Length: 6.210 mm***

***Weight: 6.074 kg***



**Ventilatoare elicoidale (680 RPM)**



**Suprti antivibratie compresor**



**Garnituri speciale de cauciuc**



**Conducta flexibila pe refulare**



**Carcasa fonoizolanta**

## ► Versiunea Quiet

Suprafata de trecere  
marita pe partea de  
aer la condensator



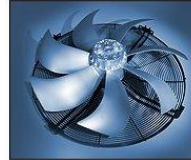
Exemplu:

**EWAD900BJYNN/Q**

***L(w): 87,4 dB(A)***

***Length: 9.200 mm***

***Weight: 9.150 kg***



Ventilatoare elicoidale (680 RPM)



Suptri antivibratie compresor



Garnituri speciale de cauciuc



Conducta flexibila pe refulare



Carcasa fonoizolanta

## Compresoare cu surub

*\* Adisponibil si in varianta cu condensator la distanta*



Compact  
line



**EWWD120~540MBYNN\***

**EWWD340~C19CJYNN\***

100

500

1000

1500

2000

**EWWD170~650DJYNN\***

**EWWD380~C11BJYNN**



**R-134a**



## EWWD170-600DJYNN



**R-134a**



- reglaj continuu de capacitate
- separator de ulei integrat
- vana de izolare pe refulare
- constructie semiermetica
- pornire Y -  $\Delta$  standard
- motor racit cu vapori reci (aspiratie)



**Compresor  
monosurub**

- Capacitati: 166 – 604 kW
- 2 versiuni: Standard EER pana la 4 si Clasa A EER pana la 4,7
- 1-2 circuite independente de agent frigorific
- Evaporator: tevi in manta – o trecere pe partea agentului frigorific
- Vana de expansie electronica

**New** EWWD340-C19CJYNN



**R-134a**



- reglaj continuu de capacitate
- clapeta pe refulare
- constructie semiermetica
- pornire Y - D standard
- motor racit cu vapori reci (aspiratie)



**Compresor  
monosurub**

- Capacitati: 334 – 1893 kW
- Eficienta energetica in racire EER 4,1-4,6
- 1-2-3-4 circuite independente de agent frigorific
- Evaporator:tevi in manta – o trecere pe partea agentului frigorific
- Vana de expansie electronica



## EWWD380-C11BJYNN



**R-134a**



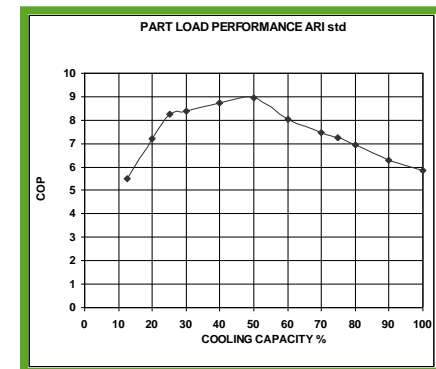
- reglaj continuu de capacitate
- clapeta pe refulare
- constructie semiermetica
- pornire Y - D standard
- motor racit cu vapori reci (aspiratie)



**Compresor monosurub**

- Capacitati: 369 – 1050 kW
- Eficienta energetica in racire pana la 5,8
- Performante ridicate la sarcini partiale EER pana la 9
- Evaporator imersat
- Vana de expansie cu flotor –  
(reglaj nivel de refrigerent lichid)

### Performante ridicate la sarcini partiale



## In dezvoltare, *EWWQ\_YNN*



**R-410A**

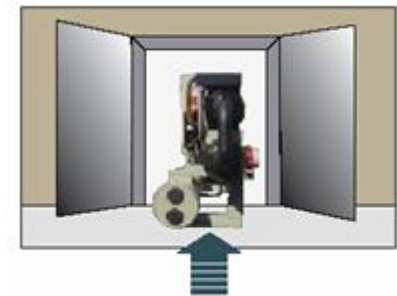


- reglaj continuu de capacitate
- clapeta pe refulare
- constructie semiermetica
- pornire Y - D standard
- motor racit cu vapori reci (aspiratie)



**Compresor  
monosurub**

- Capacitati: 729 – 2192 kW
- 2 clase de Eficienta energetica: **standard** pana la 4,6 si **inalta** pana la 5,2
- 1-2 circuite independente de agent frigorific
- Agregat compact
- Vana de expansie electronica
- Lansare: sfarsit an 2007



## Multiple optiuni de control

- control eficient parametrii
- monitorizare functionare protectii
- vizualizare parametrii, informatii utile



Gateway

Interfata BMS



## *Reglaj continuu*

- 30% - 100% Un circuit
- 15% to 100% Doua circuit

- **Eficienta ridicata la sarcini partiale**
- **toleranta 0,2°C control temperatura**





Toate unitatile sunt testate in fabrica  
inainte de expediere  
**(test cu martor)**



Facilitati extinse de testare  
la locul de montaj

Cooperare cu instituttele de certificare



ISO 9001 Quality Management System



ISO 14001 Environmental Management System

# Gama completa de agregate de racire



# Ventiloconvectoare



## Carcasate (1,5 - 9 kW)

Disponibile cu 2 si 4 tevi



FW V



De pardoseala

$L_w = 49\text{dBA}$

FW L



Montaj suspendat

Flexi



sau

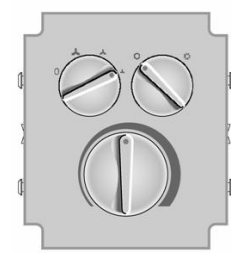
Montaj de pardoseala

### Built in controller:

- Electro mechanical
- Electronic controller

### Remote controller:

- Electronic controller



Note:  $L_w$  = Nivel mediu de zgomot (putere sonora) pe viteza medie si refulare libera

## Carcasate / Casete

**New**



**FW T**



De perete

1,4 – 6,2 kW

2 tevi

**FW F**

Caseta 600x 600

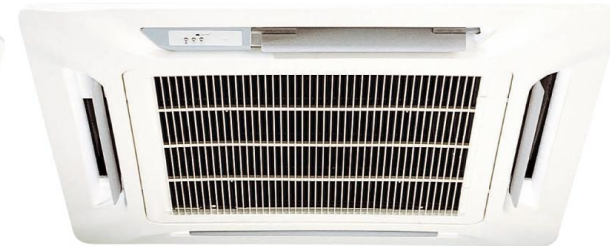


2,6 – 4,9 kW

2 tevi

**FW C**

caseta



7,2 – 11,9 kW

2 si 4 tevi

Racordabile la tubulatura (1,5 - 19 kW)



Disponibile cu 2 si 4 tevi

**FW M**

PSE redusa



Flexibilitate

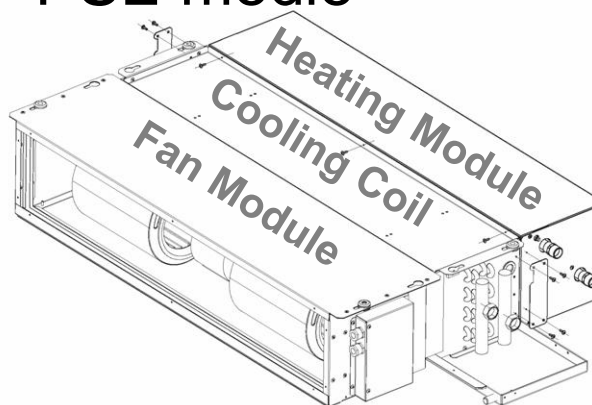


PSE = 20 - 40Pa

$L_w = 49\text{dBA}$

**FW B**

PSE medie



PSE = 60 to 80Pa

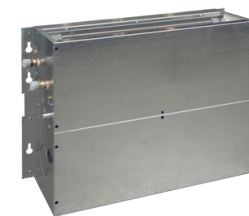
$L_w = 52\text{dBA}$

**FW D**

PSE ridicata



Flexibilitate



PSE = 100 - 120Pa

$L_w = 67\text{dBA}$

Note:  $L_w$  = Nivel mediu de zgomot (putere sonora) pe viteza medie si refulare libera  
PSE :presiune statica externa disponibila

# Documentatie si programe de selectie



**Chiller Selection Program  
Version 2.6.1  
Database 5.2.6**

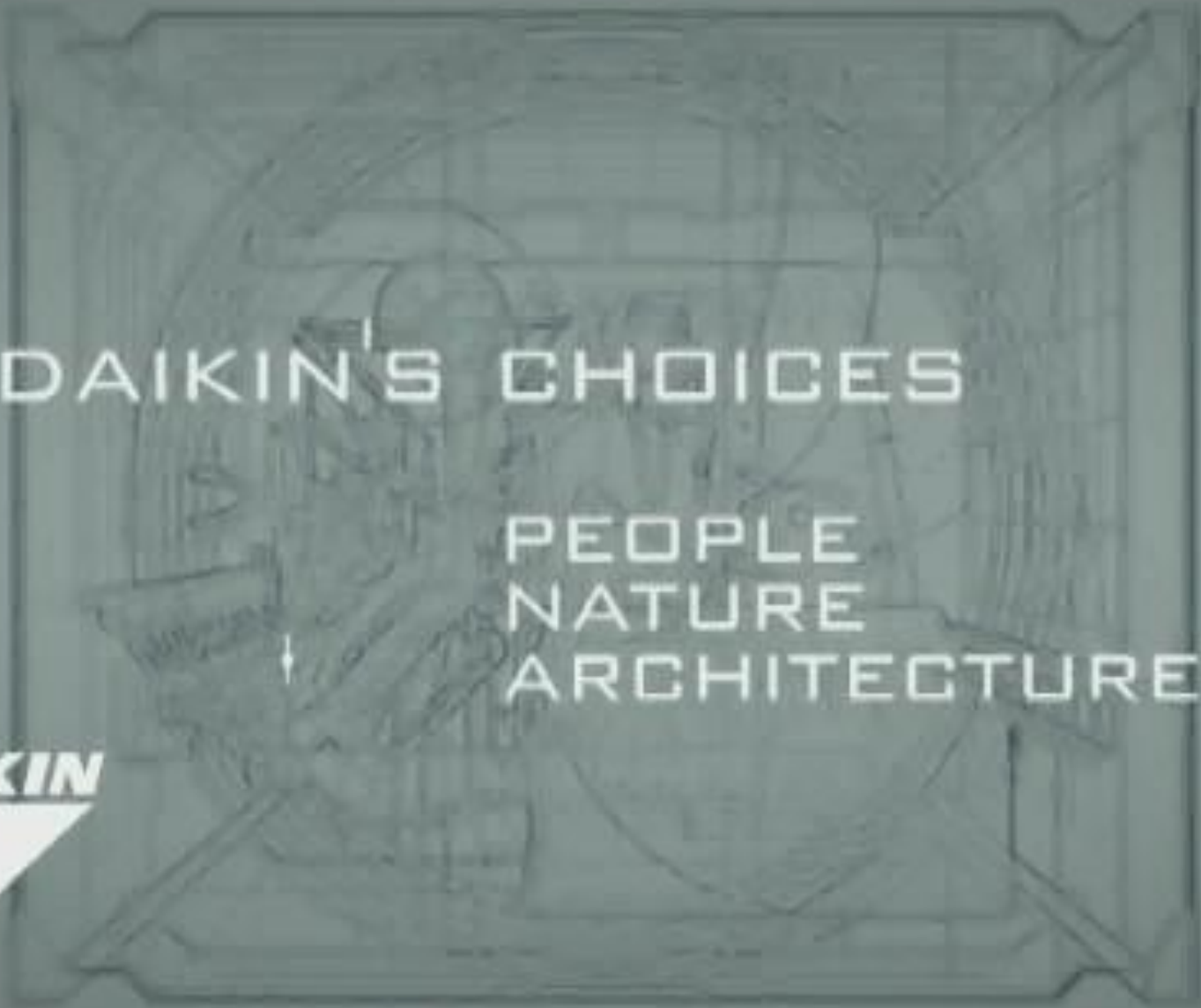


**Fan Coil Selection  
Version 3.1.5**

# Daikin, furnizor de solutii complete de climatizare



Mulumesc pentru atentie



DAIKIN'S CHOICES

PEOPLE  
NATURE  
ARCHITECTURE

**DAIKIN**

