

ENGINEERING
TOMORROW

Danfoss

Optyma™ Slim Pack

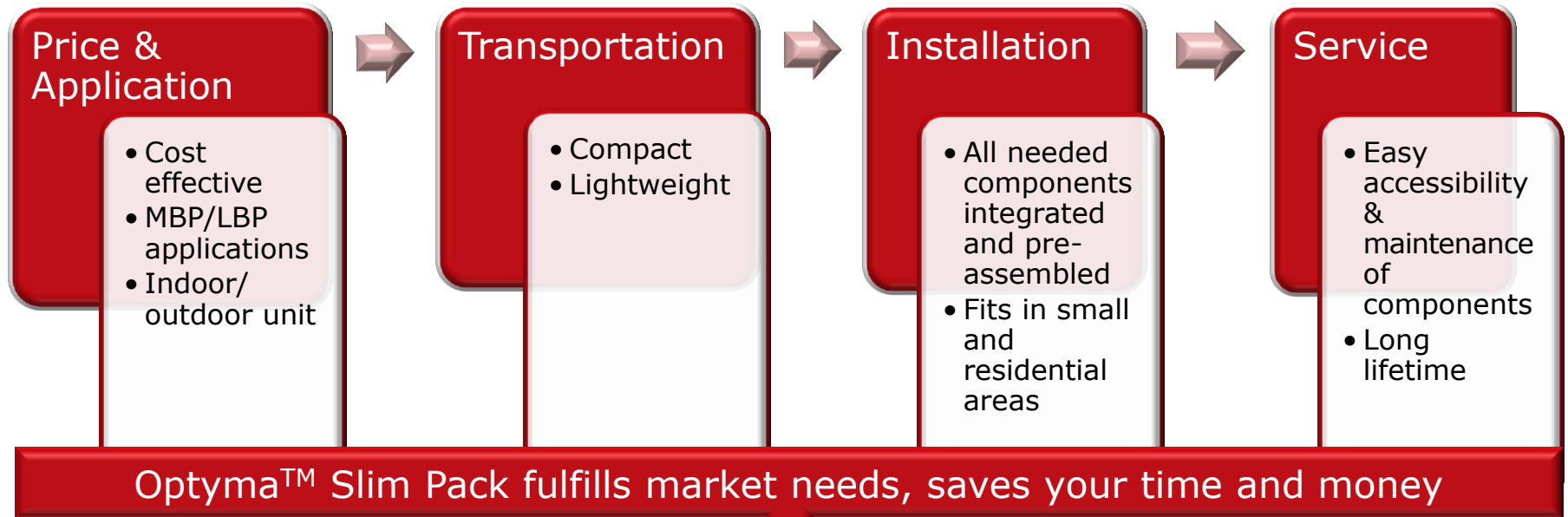
Benefits from the
cost-effective packaged solution!

Compact

Light & space-saving
design
Is easy to handle and to
install for indoor and
outdoor applications
where space is at a
premium



Market needs



Optyma™ Slim Pack

For outdoor applications



- **Weatherproof housing IP54:** outdoor applications
- **Compactness** and **lightweight** (less than 87 Kg): easier handling coupled with lower transportation and storage costs
- **Quick connections** for suction & liquid lines: quick installation
- **Aesthetic design** for integration in outdoor environment

Optyma™ Slim Pack

With unique interior



- **Micro Channel Heat Exchanger:** less refrigerant charge, corrosion resistant, easy cleaning & lighter weight
- **Scroll/reciprocating technology:** low noise and efficient compressors
- **Easy access** to all components: save time on servicing and maintenance
- **Easy Servicing** and operations thanks to shut off valves on receiver and service ports on service valves
- **High Danfoss quality** and factory tests: less maintenance and operation costs

Optyma™ Slim Pack Components

- Equipped with components optimized to work together: compressor, controls, heat exchanger
- Resistant to corrosion, designed for indoor or outdoor conditions: microchannel heat exchanger and housing



Optyma™ Slim Pack

Applications: the perfect match for



MBP and LBP applications:

- Mini-markets/supermarkets
- Restaurants
- Wine cellars
- Fish markets
- Butchers' shops
- Bakeries
- Laboratories
- Florists
- Petrol stations
- Industrial processes
- Dairy and general food storages
- Freezers



* performance given @EN13315, R404A

Optyma™ Slim Pack Models

- **24** models and 34 codes are available in **3** Housings (new models are marked in red)

| Application | Housing | Compressor | Models | kW* (-10/32 MBP, -25/32 LBP) | Refrigerants |
|-------------|-----------|---------------|--|------------------------------|--------------------------------|
| MBP | Housing 1 | Reciprocating | SC10-12-15-18MLX: 1 phase | 0,8 – 1,44 | R404A/R507 |
| | Housing 2 | Reciprocating | CAJ4517-19: 1phase TAJ4517-19: 3 phases | 2,05 – 2,8 | R404A/R507 |
| | | Scroll | MLZ015-021-026: 1&3 phases | 3,4 – 5,35 | R404A/R507, R134a (R407A/F) |
| | Housing 3 | Scroll | MLZ030-038: 1 & 3 phases MLZ045-048: 3 phases | 7,3 – 10,6 | R404A/R507, R134a (R407A/F) |
| LBP | Housing 1 | Reciprocating | SC15-18CLX.2: 1 phase | 0,68 – 0,75 | R404A/R507 |
| | Housing 2 | Reciprocating | CAJ2446-64: 1 phase NTZ048-068: 1 & 3 phases | 1,15 – 2,75 | R404A/R507 |
| | Housing 3 | Scroll | LLZ013-015-018: 3 phases | 4,1 – 5,65 | R404A/R507 |

*Capacity is given for R404A

Danfoss value proposition differentiation in Optyma™ family

| Customer | Optyma™ | Optyma™ SlimPack | Optyma™ New Generation |
|------------|--|---|---|
| Wholesaler | <ol style="list-style-type: none"> 1. Well known product 2. Wide range 3. Solution for OEMs | <ol style="list-style-type: none"> 1. Cost effective package unit 2. Strong sales, technical and promotional support 3. Better competitiveness | <ol style="list-style-type: none"> 1. High level positioning on the market 2. Complete MBP&LBP range 3. Differentiation vs locally produced units |
| Installer | <ol style="list-style-type: none"> 1. Simple solution 2. Easy service & customization 3. Availability of all spares | <ol style="list-style-type: none"> 1. Ready for outdoor installation 2. Necessary components are preassembled – fast and easy installation | <ol style="list-style-type: none"> 1. Plug&Play solution – factory tested and preset parameters 2. Robust and reliable housing for outdoor installations 3. Solution for residential areas |
| End user | <ol style="list-style-type: none"> 1. Low cost product | <ol style="list-style-type: none"> 1. Energy efficiency 2. Reduced noise 3. Smart design | <ol style="list-style-type: none"> 1. Energy efficiency 2. Low noise solution 3. Smart design 4. High level of compressor protection by controller |



MBP, kW: 0,13 – 22
LBP, kW: 0,13 – 10



MBP, kW: 0,8 – 10,6
LBP, kW: 0,7 – 5,6



MBP, kW: 0,6 – 16,5
LBP, kW: 0,75 – 9,6

Optyma™, Optyma™ Slim Pack & Optyma™ Plus New Gen Equipment level comparison

| Component | Optyma | SlimPack | OP+ EVO3 |
|-------------------------|--------|----------|----------|
| Reciprocating hermetic | + | + | + |
| Scroll | - | + | + |
| Outdoor application | - | + | + |
| Full E-panel prewired | - | + | + |
| Main switch | - | + | + |
| Compressor contactor | - | + | + |
| Overload relay | - | + | + |
| Overcurrent relay | - | + | + |
| Phase sequence relay | - | + | - |
| HP/LP pressure switches | + | + | + |
| Fan speed control | - | - | + |
| Crankcase heater | + | + | + |
| CU controller | - | - | + |
| Filter | - | + | + |
| Sight glass | - | + | + |
| Receiver | + | + | + |
| Liquid/suction valves | + | + | + |

Optyma™, Optyma™ Slim Pack & Optyma™ Plus New Gen

Functionality comparison

| Functionality | | Optyma | SlimPack | OP+ EVO3 |
|------------------|---|--------|----------|----------|
| Housing | External access to main switch | - | - | + |
| | Visibility of sight glass | - | - | + |
| | Stack mounting | - | - | + |
| | Easy and independent access to components | - | - | + |
| Controller | Intelligent condensing temperature regulation | - | - | + |
| | 100% speed of fan possible | - | - | + |
| | Intelligent control of crankcase heater | - | - | + |
| | Compressor protection against: | | | |
| | 1) start/stop | - | - | + |
| | 2) high discharge temperature | - | - | + |
| | 3) minimum ON/OFF time | - | - | + |
| | Pump-down function | - | - | + |
| | Pre-set parameters | - | - | + |
| | Read out parameters | - | - | + |
| Alarm generating | - | - | + | |

Marketing support

Danfoss España
 > Mis productos favoritos
 Buscador de productos

Refrigeración y A/A
 > Noticias y Artículos
 > Noticias ADAP-KOOL
 > CoolingMatters
 > Productos
 > Visitenos en Mostra Convegno 2014
 > Productos & Aplicaciones in focus
 > Optyma™ Slim Pack gama extendida
 Optyma Plus Nueva Generación
 Productos de acero inoxidable de Danfoss
 Danfoss ICL: Nueva gama de válvulas principales servoaccionadas de dos etapas.

Acerca de Danfoss | Productos | Áreas comerciales | Noticias & Eventos | Empleos | Contactos
 > Home > Áreas comerciales > Refrigeración y A/A > Productos & Aplicaciones in focus

Optyma™ Slim Pack: más oportunidades de negocio con la gama ampliada
 Por su fiabilidad, sus dimensiones compactas y su carácter económico, la unidad condensadora **Optyma™ Slim Pack** es una de las soluciones de refrigeración más populares en lo que respecta a refrigeración económica.
 La gama **Optyma™ Slim Pack** ha sido ampliada con 15 nuevos modelos que para ofrecer una gama completa para aplicaciones de refrigeración.
 Con esta ampliación la gama completa cuenta con 22 modelos para aplicaciones LBP y MBP con 3 tamaños de carcasa:
 - Baja temperatura LBP de 0.6 a 5.6 kW
 - LBP de 0.8 a 10.6 kW

Lightweight size. Heavyweight performance. Benefit from the cost-effective packaged solution!

Range extension for an extended offer:
 For medium-temperature refrigeration applications ranging from 0.6 to 10.6 kW
 For low-temperature refrigeration applications ranging from 0.6 to 5.6 kW
 Complies with the new energy labeled Refrigerators for Fan motors

Compact
 Light weight, space saving design, easy to install



Mínimo tamaño. Máximo rendimiento. ¡Aproveche las ventajas económicas que pone a su alcance esta nueva solución!

Con 17 nuevos modelos de Optyma™ Slim Pack introducidos en el mercado este año, la gama completa de 24 modelos cubre ahora aplicaciones de baja contrapresión desde 0.6 a 5.6 kW así como capacidades de refrigeración basadas en media temperatura con aplicaciones por debajo de 10.6 kW.

Nomenclatura
 OP-MSUM034.ML.W05.E

- 1 Aplicación M o MBP / L o LBP
- 2 Familia de unidad condensadora: S o Optyma™ Slim Pack
- 3 Refrigerante: R410A/R404A/R507/R513 / H o R404A/R507
- 4 Tipo de condensador: M = Estándar con intercambiador de calor de microcanales
- 5 Desplazamiento en casí
- 6 Plataforma del compresor
- 7 Versión base
- 8 Código de voltaje: C = 230V/monofásico (compresor y ventilador) E = 400V/monofásico (compresor y 230V monofásico (ventilador))

Rango de refrigeración (kW)

| | | |
|-------------|-----|------|
| MBP - R410A | 0.6 | 10.6 |
| MBP - R404A | 0.6 | 10.6 |
| MBP - R507 | 0.6 | 10.6 |
| MBP - R513 | 0.6 | 10.6 |
| LBP - R410A | 0.6 | 10.6 |

Optyma™ Slim Pack
 New product range
 New online e-lesson

Mały wymiary, wielkie osiągi. Zalety nowego agregatu w przyjaznej cenie!

Nowa linia urządzeń chłodniczych Optyma™ Slim Pack (R410A/R404A/R507/R513) z jednostkami skraplaczowymi i sprężarkami, które umożliwiają instalację w miejscach o ograniczonej przestrzeni i niskim poziomie hałasu.



- Catalogue
- Instructions
- Brochure
- Selection leaflet
- Online E-lesson
- Animated movie
- Posters
- Sales presentation
- Value selling presentation