fridge

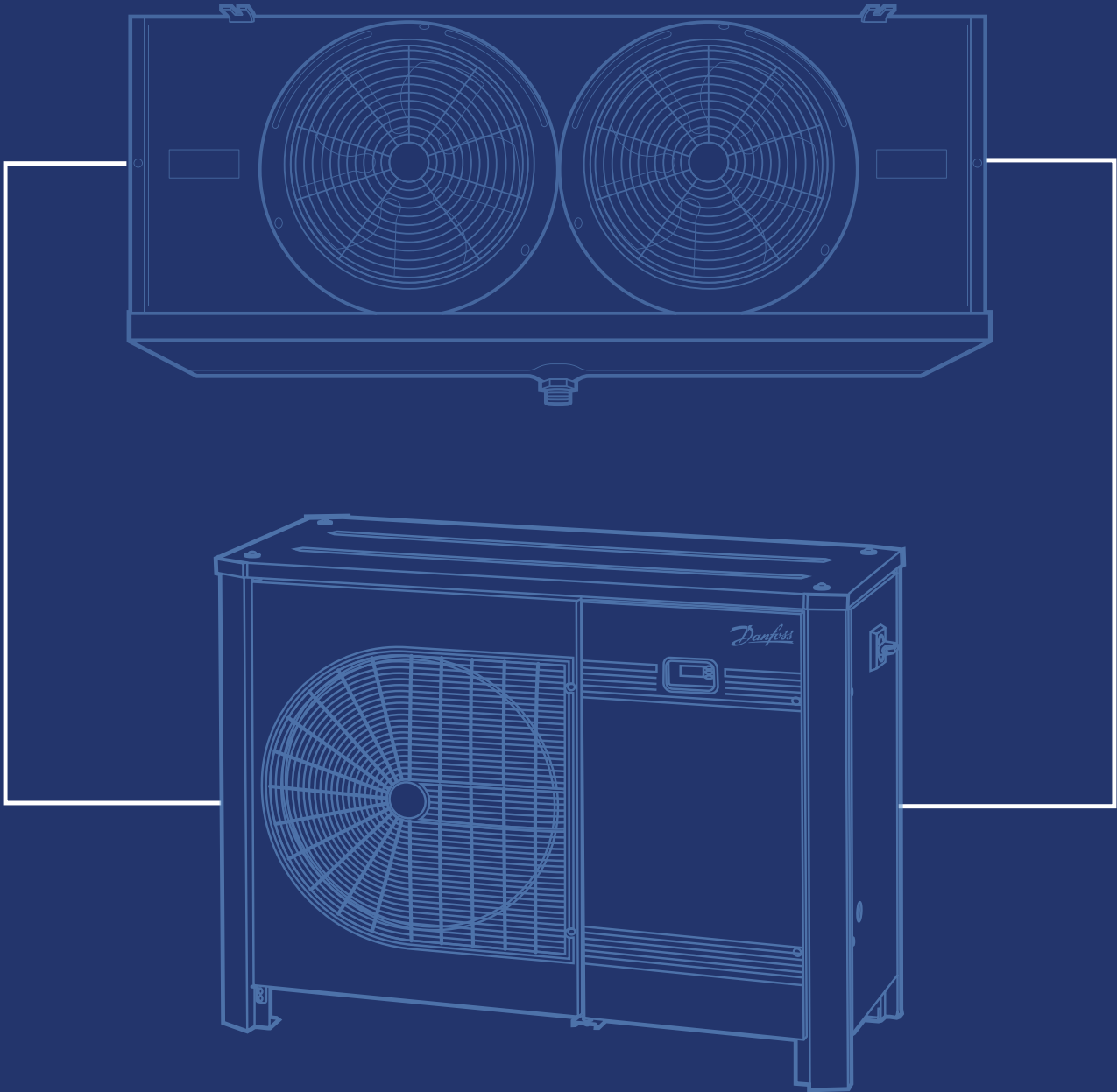## SPLITS

Taking the hassle out of cold room & freezer room selections

Overview

Fridgesplits are a range of competitive refrigeration systems, designed to take the guess work out of cold room and freezer room selections. Each fridgesplit uses the market leading Danfoss Optyma Slim condensing unit which has been perfectly matched to an ECO evaporator.

The fridgesplit comes with a 3 year warranty that is unique to our trade and it's offered with a range of installation & controller kits that offer high quality Danfoss components at fantastic prices.

Specification

Quick & Safe Installation & Service
Enjoy fast and easy installation with the mains switch, service valves, and quick connections. In addition, the easy-to-clean Microchannel condenser saves you time and effort on servicing.
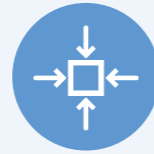
High SERN
All models in the range are highly efficient and well above EcoDesign 2018 thresholds, contributing to a reduction in energy costs.

Suitable for Residential Areas
Optyma operates up to 7 dB(A) lower than other packaged units of the same capacity and the fan-speed controller further reduces the sound level by up to 4 dB(A) for low load / ambient conditions.

Optimised Footprint for Floor & Wall Mounting
Thanks to its slim design and low weight, it is easy to transport and handle during installation - particularly for wall mounting. Minimal footprint means to increase the number of potential locations.

Micro Channel Heat Exchanger
Economically designed to reduce the refrigerant charge needed. Corrosion resistant, suitable for use in coastal areas, providing extensive service. Slimmer than traditional condensers, the units are easier to clean and weigh less.

Low GWP Refrigerant
All systems are designed to use the best low GWP refrigerant available. For MT applications R449A is required and for LT systems R452A.
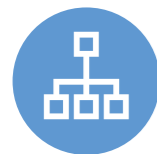
Installation & Controller Kits
Each system has installation kits designed specifically to offer high quality components at very competitive rates.

Quality Components
The units use Danfoss components which are renowned for their quality and performance. This increases reliability which in turn manages down future running costs.

3-Year Extended Warranty
All Fridgesplit systems come with a standard warranty period of 3 years!

Register today at www.fridgesplits.co.uk

Danfoss Optyma™ Slim

Accessible Fan
Accessible fan and condenser for easy maintenance.

Micro Channel Heat Exchanger
Micro-channel heat exchanger is light and easy to clean.

Corrosion Resistant
Resistance to corrosion of the heat exchanger and housing prolongs the lifetime of the unit.

Quick Connections
Quick connections accelerate installation: just mount, braze & plug.

Filter Drier & Sight Glass
Filter drier and sight glass protect the unit from moisture, acids and solid particles. Flare connections simplify maintenance.

Accessible Service Ports
Accessible service ports on service valves (suction and liquid).

Schrader Valve
Thanks to the Schrader valve the unit is compatible with various fan control devices.

Dual Pressure Control
Dual KP17WB pressure control for enhanced safety.

Receiver With Shut-Off Valve
Receiver with shut-off valve makes servicing easier.

Crankcase Heater
Crankcase heater protects the compressor when operating under cold weather conditions.

The Optyma™ Slim matches with the following evaporators:

ECO EVS Compact Cooler   OR   **ECO GME** Wedge Cooler   OR   **ECO GCE** Box Cooler

ECO™ heat transfer coolers

MODINE

These high quality evaporators have casings made from magnesium aluminium alloy which provides a high class appearance combined with durability and ease of cleaning. The coil design uses 'aeraulic' principles to maximise the transfer of heat using pressurised air.

This results in a compact design for the refrigerating capacity. Heaters and fan motors are connected to an IP54 terminal box that is easily accessible.

Air Flow Configuration

Wedge / Compact Cooler
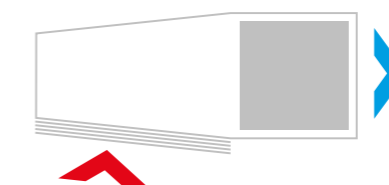
Box Cooler

General Chiller - Quick Selection Guide

Room Volume	Power Supply	Fridgesplit	Part No.	Chiller Load (kW)	System Capacity (kW)	Pipe Sizes (in) Suction	Pipe Sizes (in) Liquid	Install Kit Number	Control Kit Number
5m³	1ph	FS100M1C	FS10000	1	1	1/2	1/4	2	1
10m³	1ph	FS145M1C	FS10001	1.4	1.45	1/2	1/4	2	1
15m³	1ph	FS150M1C	FS10002	1.6	1.5	1/2	3/8	2	1
20m³	1ph	FS250M1W	FS10003	2	2.5	5/8	3/8	2	1
25m³	1ph	FS250M1W	FS10003	2.3	2.5	5/8	3/8	2	1
30m³	1ph	FS270M1B	FS10005	2.6	2.7	5/8	3/8	2	2
30m³	3ph	FS270M3B	FS10006	2.6	2.7	5/8	3/8	3	2
35m³	1ph	FS270M1B	FS10005	2.8	2.7	5/8	3/8	3	2
35m³	3ph	FS270M3B	FS10006	2.8	2.7	3/4	3/8	3	2
40m³	1ph	FS340M1B	FS10009	3.1	3.4	3/4	3/8	3	2
40m³	3ph	FS340M3B	FS10010	3.1	3.4	3/4	3/8	3	2
45m³	1ph	FS340M1B	FS10009	3.3	3.4	3/4	3/8	3	2
45m³	3ph	FS340M3B	FS10010	3.3	3.4	3/4	3/8	3	2
50m³	1ph	FS400M1B	FS10013	3.6	4.1	3/4	3/8	4	2
50m³	3ph	FS400M3B	FS10014	3.6	4.1	3/4	3/8	4	2
55m³	1ph	FS400M1B	FS10013	3.9	4.1	3/4	3/8	4	2
55m³	3ph	FS400M3B	FS10014	3.9	4.1	3/4	3/8	4	2
60m³	1ph	FS400M1B	FS10013	4.1	4.1	3/4	3/8	4	2
60m³	3ph	FS400M3B	FS10014	4.1	4.1	3/4	3/8	4	2
65m³	1ph	FS400M1B	FS10013	4.3	4.1	3/4	3/8	4	2
65m³	3ph	FS400M3B	FS10014	4.3	4.1	7/8	3/8	4	2
70m³	1ph	FS535M1B	FS10015	4.5	5.35	7/8	3/8	4	2
70m³	3ph	FS535M3B	FS10016	4.5	5.35	7/8	3/8	4	2
75m³	1ph	FS535M1B	FS10015	4.8	5.35	7/8	3/8	4	2
75m³	3ph	FS535M3B	FS10016	4.8	5.35	7/8	3/8	4	2
80m³	1ph	FS535M1B	FS10015	5	5.35	7/8	3/8	4	2
80m³	3ph	FS535M3B	FS10016	5	5.35	7/8	3/8	4	2
85m³	1ph	FS535M1B	FS10015	5.2	5.35	7/8	3/8	4	2
85m³	3ph	FS535M3B	FS10016	5.2	5.35	7/8	3/8	4	2

General Chiller Room - Estimated coldroom load based on: Ambient Temperature 32°C / Room Temperature +1°C / TD 5 to 7°K / Infiltration Usage: Normal / Insulation: 75mm Polyurethane to walls and ceiling / Floor: 200mm Concrete cast dense / Product: General purpose 50kg per m³ entering +7°C / Lighting: 10w/m³ 8hrs a day / Pipe run to a maximum of 15m inc 3m rise

The quick selection table is intended as a guide only. You should satisfy yourself that the equipment offered is suitable for your application. Larger rooms may benefit from two separate systems.

General Freezer - Quick Selection Guide

Room Volume	Power Supply	Fridgesplit	Part No.	Freezer Load (kW)	System Capacity (kW)	Pipe Sizes (in) Suction	Pipe Sizes (in) Liquid	Install Kit Number	Control Kit Number
5m³	1ph	FS100L1C	FS10500	1	1	5/8	3/8	5	1
10m³	1ph	FS150L1C	FS10501	1.4	1.55	5/8	3/8	5	1
10m³	3ph	FS150L3C	FS10502	1.4	1.55	5/8	3/8	5	1
15m³	1ph	FS210L1C	FS10503	1.9	2	3/4	3/8	6	1
15m³	3ph	FS210L3C	FS10504	1.9	2	3/4	3/8	6	1
20m³	1ph	FS220L1B	FS10505	2.2	2.2	3/4	3/8	6	2
20m³	3ph	FS220L3B	FS10506	2.2	2.2	3/4	3/8	6	2
25m³	1ph	FS255L1B	FS10507	2.6	2.55	3/4	3/8	7	2
25m³	3ph	FS255L3B	FS10508	2.6	2.55	3/4	3/8	7	2
30m³	1ph	FS255L1B	FS10507	2.8	2.55	3/4	3/8	7	2
30m³	3ph	FS255L3B	FS10508	2.8	2.55	3/4	3/8	7	2
35m³	3ph	FS340L3B	FS10509	3.1	3.4	7/8	1/2	7	2
40m³	3ph	FS340L3B	FS10509	3.4	3.4	7/8	1/2	7	2
45m³	3ph	FS340L3B	FS10509	3.7	3.4	7/8	1/2	7	2
50m³	3ph	FS470L3B	FS10511	4	4.1	1.1/8	1/2	8	2
55m³	3ph	FS470L3B	FS10511	4.3	4.1	1.1/8	1/2	8	2
60m³	3ph	FS500L3B	FS10512	4.5	5	1.1/8	1/2	9	2
65m³	3ph	FS500L3B	FS10512	4.7	5	1.1/8	1/2	9	2
70m³	3ph	FS500L3B	FS10512	4.9	5	1.1/8	1/2	9	2
75m³	3ph	FS500L3B	FS10512	5.2	5	1.1/8	1/2	9	2
80m³	3ph	FS500L3B	FS10512	5.4	5	1.1/8	1/2	9	2

General Freezer Room - Estimated freezer-room load based on: Ambient Temperature 32°C / Room Temperature -20°C / TD 5 to 7°K / Infiltration Usage: Normal / Insulation: 100mm Polyurethane to walls and ceiling / Floor: 100mm Polyurethane Product: General purpose 65kg per m³ entering -14°C / Lighting: 10w/m³ 8hrs a day / Pipe run to a maximum of 15m inc 3m rise

The quick selection table is intended as a guide only. You should satisfy yourself that the equipment offered is suitable for your application. Larger rooms may benefit from two separate systems.

Nomenclature

FS - 250M1W

1	FS = Fridgesplits
2	### = 3 Digits represent duty in Kw / 100 ie: 250 = 2.5Kw
3	M = Medium back pressure L = Low back pressure
4	1 = Single Phase 3 = Three Phase supply
5	Evaporator Design. C = compact W = wedge B = box

1   2   3 4   5

Optional Kits

Fridgesplits can be matched to an installation kit and a controller kit, both perfectly sized to suit each individual **system.**

Controller Kit

Kit 1: Optyma™ Controller AK-RC101
Kit 2: RDM Controller PR0150

Surface-Mounted Isolator

Fan Speed Controller

Installer Kit

Thermostatic Expansion Valve

Solenoid Valve

Danfoss Orifice

Notes

Quality 'fridge system with a long warranty at a great price?

That'll be a Fridgesplit.