N3000 series INSTALLATION INSTRUCTIONS

Available in EN / FR / NL / DE / IT / ES / SV / SL



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GENERAL

1 INTRODUCTION

These installation instructions provide you with the necessary information for correct and safe installation of the Thetford N3000 series refrigerators. Thetford also provides 2D-drawings and 3D-files for further reference.

1.1 Symbols used



OK



Not OK



Tip



Special attention required



Caution (possible risk of injury or product damage)

1.2 Fridge designation

Each refrigerator has a specific identification code, the fridge designation. The different positions stand for different variations of the refrigerator. In these instructions, the designation will be used as reference.

Designation example: N3097 - N121F004L06E

N3	097	_	N	121	F	004	L	06	Е	+
	Fridge volume			Type foamed cabinet	Type of cooling unit	Type of door	Hinge position	Type of control panel	Type disp.	

1.3 Available drawings and models

2.0 /			
Designation	Description	2D drawing*	3D model
N3080 – x xxx x xxx x xx E	N3080	le942	le932
N3090 – x xxx x xxx x xx E / N3090 – x xxx x xxx x xx A	N3090	le943	le933
N3097 – x xxx x xxx x xx E / N3097 – x xxx x xxx x xx A	N3097	le944	le934
N3100 – x xxx x xxx x xx E / N3100 – x xxx x xxx x xx A	N3100	le945	le935
N3104 – x xxx x xxx x xx E / N3104 – x xxx x xxx x xx A	N3104	le946	le936
N3108 – x xxx x xxx x xx E / N3108 – x xxx x xxx x xx A	N3108	le947	le937
N3112 – x xxx x xxx x xx E / N3112 – x xxx x xxx x xx A	N3112	le948	le938
N3115 – x xxx x xxx x xx E	N3115	le962	le961
N3141 – x xxx x xxx x xx E / N3141 – x xxx x xxx x xx E+ /	N3141	le1122	le1124
N3141 – x xxx x xxx x xx A			
N3142 – x xxx x xxx x xx E / N3142 – x xxx x xxx x xx E+ /	N3142	le1123	le1125
N3142 – x xxx x xxx x xx A			
N3145 – x xxx x xxx x xx E / N3145 – x xxx x xxx x xx A	N3145	le949	le939
N3150 – x xxx x xxx x xx E / N3150 – x xxx x xxx x xx A	N3150	le950	le940
N3170 – x xxx x xxx x xx E / N3170 – x xxx x xxx x xx A	N3170	le1058	le1062
N3175 – x xxx x xxx x xx E / N3175 – x xxx x xxx x xx A	N3175	le951	le941
N.A.	"Power Cable	le952	N.A.
	Connections"		

^{*} The 2D drawings consist of:



⁻product dimensions

⁻screw positions

⁻hinge position

2 SAFETY INSTRUCTIONS

e installing a Thetford N3000 series refrigerator, you need to observe the underneath utions and general recommendations. he refrigerator is designed for powering by liquid gas (propane, butane or a mixture of nese both), 12V DC or 230V AC. ever open or damage the cooling device at the rear of the refrigerator. The cooling ystem is pressurised and contains substances harmful to health. ever expose the refrigerator to water or moisture. he performance of the refrigerator may be affected by adjacent heat sources such as an even or stove. Protect the refrigerator against any heat source by fitting insulation. Inly a qualified person is allowed to install the refrigerator and its electrical and gas components. Install the refrigerator in accordance with the local/national laws. The electrical connections and gas components must be installed in accordance with the latest technical regulations. There are sharp edges and corners at the rear of the refrigerator. Always wear protection gainst cuts when installing the refrigerator. The correct installation or maintenance of the refrigerator may cause physical injury and/or damage to the refrigerator. The refrigerator must be sealed from the living area of the caravan or motor home coording EN 1949. Air for the burner must not be drawn from the living area of the living area.
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o cool the system and to supply the burner with sufficient airflow, make sure that there salways sufficient ventilation through the outside vents. The gas pipe has to be installed free of tension the refrigerator must be installed in a way that allows easy access for maintenance and
epairs.
nly a qualified installation person is allowed to maintain, remove or repair (electronic or as components of) the refrigerator. ever use naked flames whilst performing maintenance or repairs on gas lines or when hecking fittings for leaks. Gas may ignite and cause an explosion resulting in serious hysical injury and/or damage to the product.
ever reposition or change the electronic or gas components or parts.
and representation of charge the electronic of East components of parts.
he refrigerator only runs on liquid gas (propane, butane or a mixture of these both). It oes not run on natural gas or coal gas. he fully installed refrigerator must allow proper and complete discharge of combustion ases. Combustion gases may contain carbon monoxide. Inhalation of this gas may ause tightness of the chest, dizziness and can lead to death.
H



3 STANDARDS/LEGISLATION

2006/95/EC Low Voltage Directive 2009/142/EC Gas Appliances Directive 2009/19/EC (2004/104/EC) Automotive EMC Directive

EN 732:1998 EN 60335-2-102:2006 EN 1949:2011 EN 55014-1:2007 EN 60335-1:2010 EN 55014-2:1998

EN 60335-2-24:2010

4 CUSTOMER SERVICE

4.1 Installation audit form

Thetford offers an additional service by auditing the installation of its products. This means that before a Thetford product is installed a Thetford local service representative will carry out a specific audit based on the Thetford installation instructions. The audit is meant as a reference for the specific model to ensure correct installation. In any case the Thetford local service representative can be contacted for any additional support related to the installation of the product.

4.2 Serviceability

The installer of Thetford products is responsible for proper installation to ensure the correct functionality and serviceability of the appliance. In terms of serviceability, this means that a dealer or an authorised Thetford service partner must be able to de-install and re-install the Thetford products within the time that is allowed according the Thetford time-list, using standard tools and equipment.

This is to claim any warranty during the period of 3 years after purchase date. The serviceability of the product is also included in the audit. In case of any queries on this subject, please contact the Thetford local service representative before installing the product.



FITTING & CONNECTIONS

GENERAL DIMENSIONS

						refrigerators.	
	Display	Dimensions HxWxD (mm)*	Total volume(L)	Volume freezer (L)	Energy consumption (kWh/24h) ****	Energy consumption gas (gr./24h)*****	Net weight (kg)
N3080 – x xxx x xxx x xx E	LED	821x486x543	81	10	2.4	240	22.5
N3090 – x xxx x xxx x xx E	LED	821x525x543	89	11	2.6	270	22.5
N3090 – x xxx x xxx x xx A	LCD	821x525x543	89	11	2.6	270	22.5
N3097 – x xxx x xxx x xx E	LED	821x525x578	96	11	2.6	270	23.5
N3097 – x xxx x xxx x xx A	LCD	821x525x578	96	11	2.6	270	23.5
N3100 – x xxx x xxx x xx E	LED	821x525x543	97	11	2.8	330	27
N3100 – x xxx x xxx x xx A	LCD	821x525x543	97	11	2.8	270	27
N3104 – x xxx x xxx x xx E	LED	821x525x578	105	11	2.8	270	27
N3104 – x xxx x xxx x xx A	LCD	821x525x578	105	11	2.8	270	27
N3108 – x xxx x xxx x xx E	LED	821x525x593	106	14	2.6	270	24
N3108 – x xxx x xxx x xx A	LCD	821x525x593	106	14	2.6	270	24
N3112 – x xxx x xxx x xx E	LED	821x525x628	113	14	2.6	330	24
N3112 – x xxx x xxx x xx A	LCD	821x525x628	113	14	2.6	330	24
N3115 – x xxx x xxx x xx E	LED	821x525x650	115	14	2.6	330	25
N3141 – x xxx x xxx x xx E	LED	1500x418x561**/***	141	15	3.9	400	38
N3141 – x xxx x xxx x xx E+	LED+	1500x418x561**/***	141	15	3.9	400	38
N3141 – x xxx x xxx x xx A	LCD	1500x418x561**/***	141	15	3.9	400	38
N3142 – x xxx x xxx x xx E	LED	1500x418x561**/***	142	15	3.9	400	37
N3142 – x xxx x xxx x xx E+	LED+	1500x418x561**/***	142	15	3.9	400	37
N3142 – x xxx x xxx x xx A	LCD	1500x418x561**/***	142	15	3.9	400	37
N3145 – x xxx x xxx x xx E	LED	1245x525x543	141	23	4.0	420	37
N3145 – x xxx x xxx x xx A	LCD	1245x525x543	141	23	4.0	420	37
N3150 – x xxx x xxx x xx E	LED	1245x525x578	149	25	4.0	420	37.5
N3150 – x xxx x xxx x xx A	LCD	1245x525x578	149	25	4.0	420	37.5
N3170 – x xxx x xxx x xx E	LED	1245x525x593	167	29	4.0	420	39
N3170 – x xxx x xxx x xx A	LCD	1245x525x593	167	29	4.0	420	39
N3175 – x xxx x xxx x xx E	LED	1245x525x628	175	31	4.0	420	39.5
N3175 – x xxx x xxx x xx A	LCD	1245x525x628	175	31	4.0	420	39.5



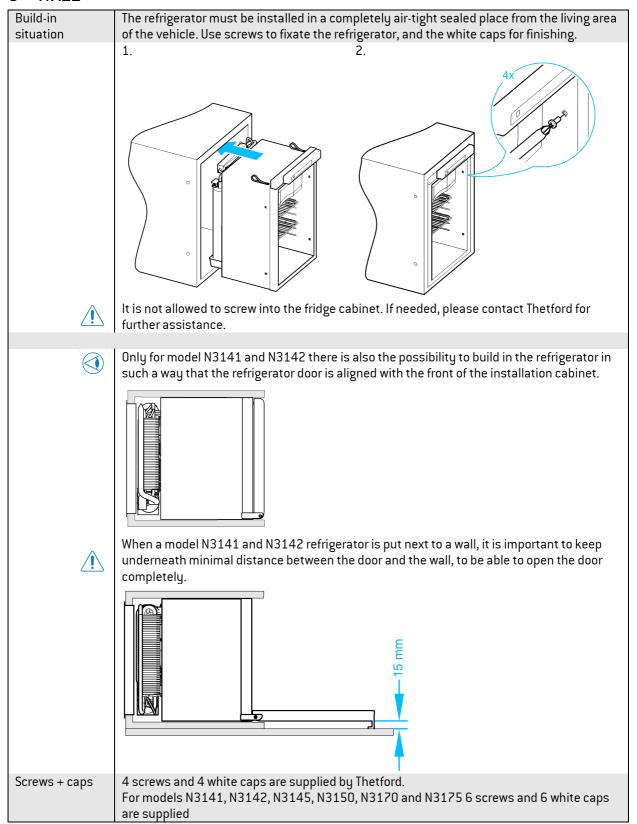
For more detailed information Product Information Sheets per model are available on request.

^{*} Depth inclusive door.

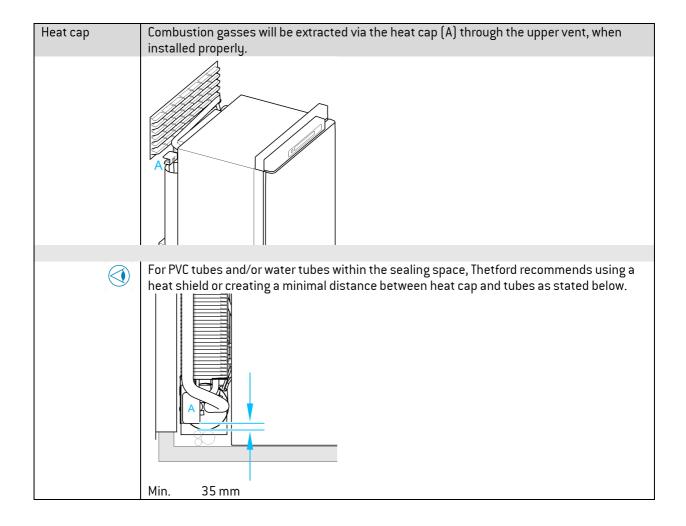
^{**} Depth inclusive door and 15mm protrusion of the door handle.
*** Dimension is excluding feet. Additional height feet: 3 mm

^{****} Average energy consumption at an ambient temperature of 25°C

6 WALL







7 FLOOR

Tilting	
	For optimum performance the refrigerator must be level. Performance is still guaranteed within the limits shown below.
	Nominal 0° / level Tolerance ±2.5°
	Tilt of the chassis or floor of the vehicle can already be a few degrees.
Floor conditions	
	The refrigerator must be placed on a flat and stable floor
Distance	
N3141/N3142	Minimum distance between bottom of the fridge and the floor is 12mm.

8 POWER SUPPLY



The electrical connections have to comply with EN 60335-1. All electrical components must be in accordance with the latest technical regulation. Only a qualified person is allowed to install the electrical and gas connections, in such a way that wires can't come into contact with hot or sharp parts.

8.1 AC

It is obligated to connect the AC wiring to a properly earthed power point.					
AC	230V				
Operating window	220-250V / 50-60Hz				
Fuse	2A slow				

8.2 DC

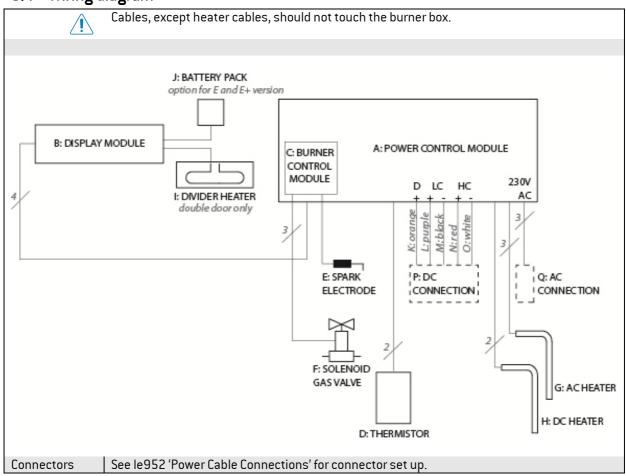
These models have 2 c	onnection points to prevent the battery from being discharged by the refrigerator when
the engine is not runni	ng.
DC	12V
Power requirement 12V high current	12V – 14.4V at the fridge (when 12V heaters are enabled)
Cable dimensions (preferred)	< 2.5 m 4 mm ² < 3.5 m 6 mm ² < 6 m 10 mm ²
Fuse high-current	20A
High current supply	red cable (+) and white cable (-) for heating element. Only switched if signal on D+
Fuse low-current	1.1A
Low current supply	purple (+) and black (-) for electronics.
D+ signal	orange, + when engine runs

8.3 Gas

The gas connection has	s to comply with EN 1949 and EN 732
Category	C ₁₁
Gas type	I_{3+} (G30: 28-30/G31: 37 mbar) for BE, FR, EI, LU, PT, ES, GB, GR, IT I_{3B}/I_{3P} (G30/G31: 28-30 mbar for DK, DE, IS, NL, SE, FI, N0 Butane = G30 / Propane = G31
Diameter gas tube	8 mm
Gas pressure	Look on the serial label inside the refrigerator (behind the vegetable bin or on the left side underneath the freezer) for pressure settings of the gas pressure control.
Othowinformation	Tour data ited in forward in a positive about the turn and dimension. Ethe interest the great when
Other information	For detailed information about the type and dimensions of the inlet of the gas tube,
	technical drawings are available on request.

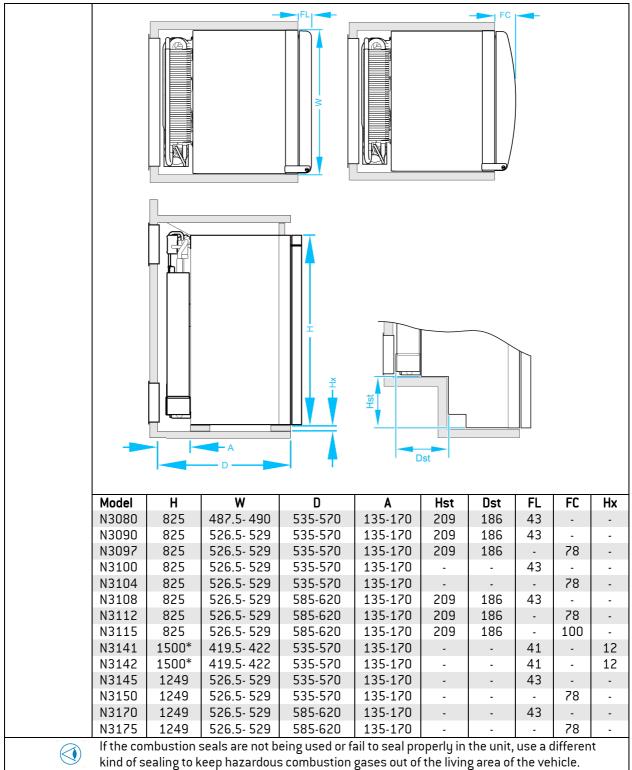


8.4 Wiring diagram



INSTALLATION INSTRUCTIONS

9 MOUNTING DIMENSIONS



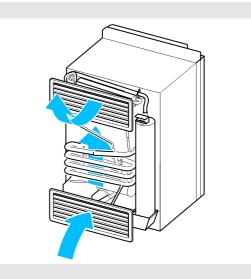
^{*} Dimension is excluding feet. Additional height feet: 3 mm.

10 VENTS

The refrigerator performance depends on good ventilation. Ventilation takes place through two vents in the wall of the vehicle.

Working principle

Cold air comes in through the lower vent, passes the cooling unit and leaves hot through the upper vent (chimney effect).

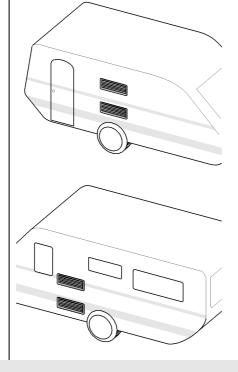


Positioning situations



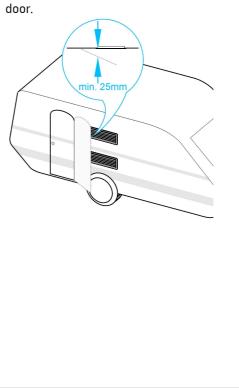
Recommended

The recommended installation is when the vents aren't covered.



Good

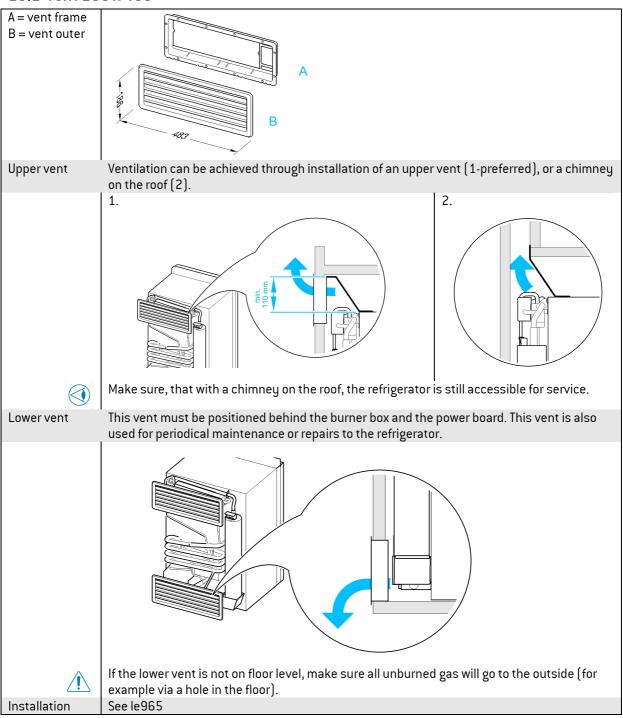
When installation is next to the caravan door, make sure that there will be at least a 25 mm distance between the vents and the door.



Not recommended Wrong The installation is not recommended, Make sure vents can't be blocked. An when combustion gases may enter the insufficient air supply can result in incomplete combustion, the forming of living area. carbon monoxide and reduction of cooling performance. Vent size 186 x 483 257 x 432 281 x 533 Model N3080 N3090 ✓ N3097 N3100 N3104 N3108 N3112 N3115 N3141 N3142 N3145 N3150 N3170 N3175



10.1 Vent 186 x 483

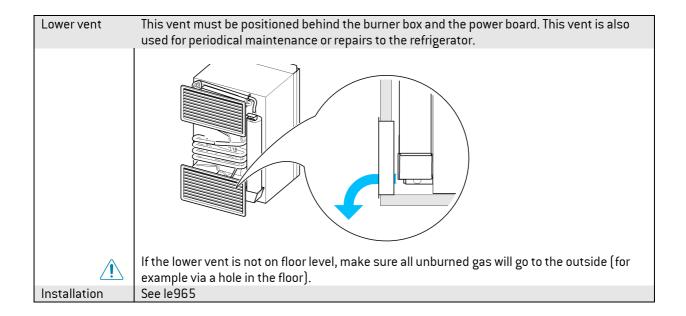




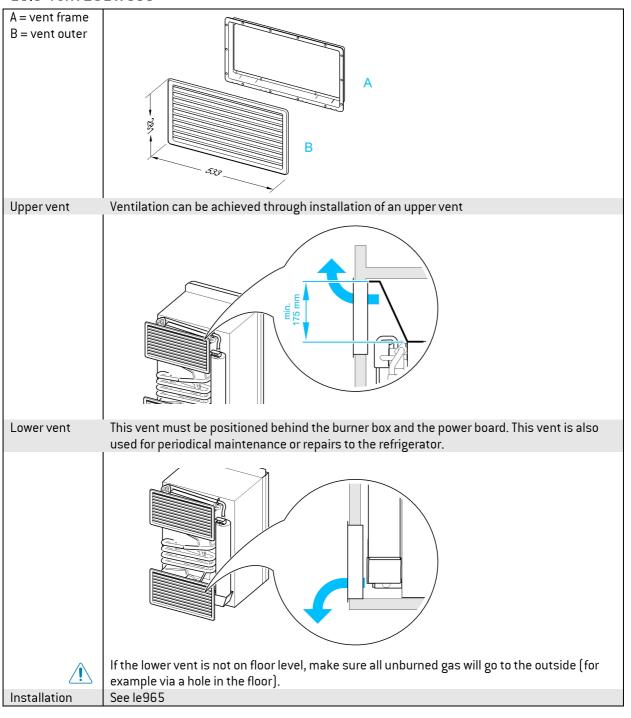
10.2 Vent 257 x 432

TO.2 VEIIC 23			
A = vent frame B = vent outer		A	
Upper vent	Ventilation can be achieved thro depending on dimension A and E	ugh installation of an upper 3.	vent. There are 3 possibilities,
Build-in dimensions	1. Preferred build-in situation	2.	3.
	A = 135 ± 5 mm B > 130 mm	$A = 135 \pm 5 \text{ mm}$ $B = 0 \pm 5 \text{ mm}$	140 mm < A < 170 mm and B > 70 mm
		Vent in line with top refrigerator	
Combustion flaps	Combustion flaps necessary from top refrigerator to top vent		Combustion flaps necessary from top refrigerator to top vent, plus a baffle (C) from the bottom of the condenser (D).
Baffle			Baffle dimensions: Dimension A Dimension C 140–150mm 30mm 150-160mm 40mm 160-170mm 50mm





10.3 Vent 281 x 533





11 SEALING

Fixation sealing

Fix the strips to the sides of the refrigerator (B) in a vertical direction at the rear of the refrigerator. Fix the upper and lower flap of the combustion sealing (A) as the drawing shows.

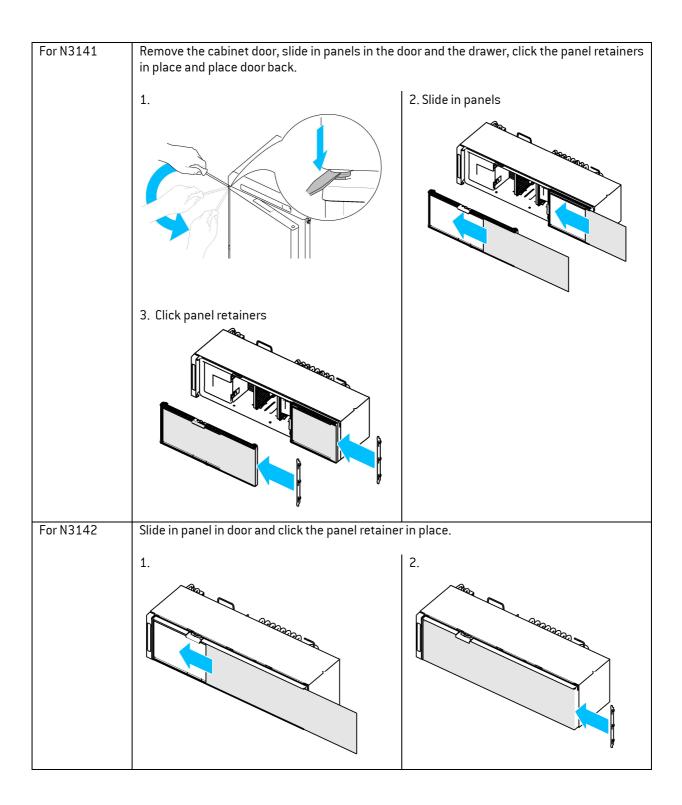
The sealing area must be separated air-tight from the living area.



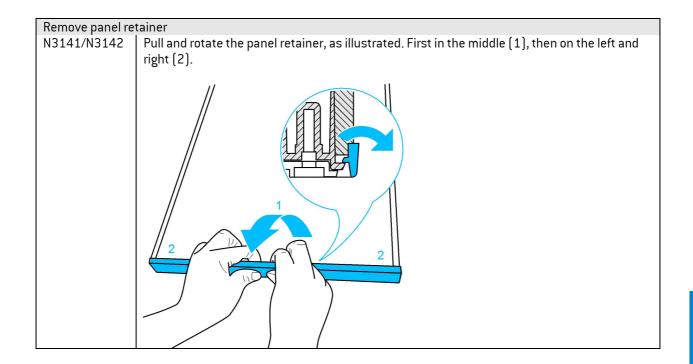
12 DOOR PANELS FRAMED DOORS

	A door panel for a frai	med door should be fi [.] 	tted before installing	g the refrigerato	r.	
Door panel	Panels for framed do	ors are not supplied b	y Thetford.			
Panel sizes	Model	Door type	Thickness (mm)	Panel siz		
				height	width	
	N3080	Flat	3	732	426	
	N3090/N3100	Flat	3	732	464	
	N3097/N3104/ N3109/N3112	Curved	3	740	469	
	N3141	Flat cabinet	2.7	950	393	
			2	950	394	
			1.5	950	395	
		Flat drawer	2.7	453	393	
		riaturawei				
			2	453	394	
			1.5	453	395	
	N3142	Flat	2.7	1425	393	
			2	1425	394	
			1.5	1425	395	
	N3145/N3170	Flat cabinet	3	865	464	
		Flat freezer	3	271	464	
	N3150/N3175	Curved cabinet	3	876	469	
	MOTOUNDING	·	3	275	469	
nstallation doo	u no no l	Curved freezer	3	۲۱۵	469	
For all models (except N3141/N3142)	Demount the door from the refrigerator, remove the panel retainer and slide the door painto the holder.					
	1.		2.			
	3.		4.			
	3x torx					









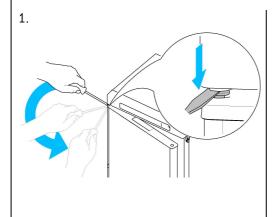
13 DOOR CONVERSION

Door conversion can be realised in some small and easy steps.

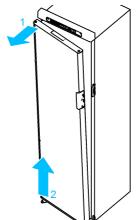
With a door conversion also change the position of the slide-out box.

Door

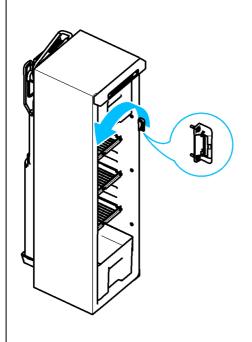
Open the door a bit, remove the hinge pin (1), and lift the door out of the hinges (2). Then move the lock on the refrigerator from one side to the other (3). Exchange the hinges, handle, hinge pin and hinge hole plug from one side to the other on the door (4).



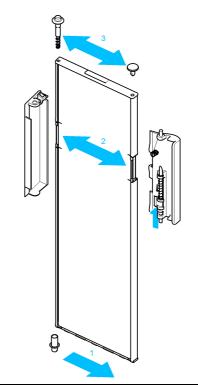
2.



3.

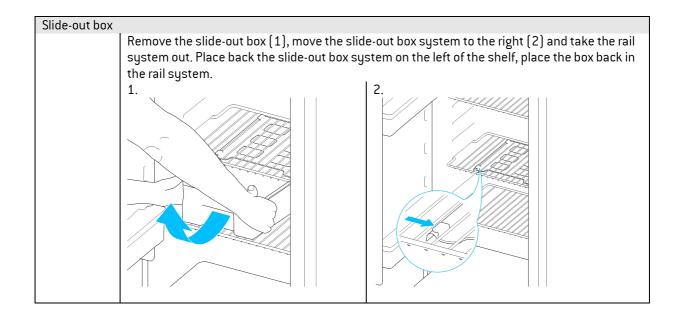


4.

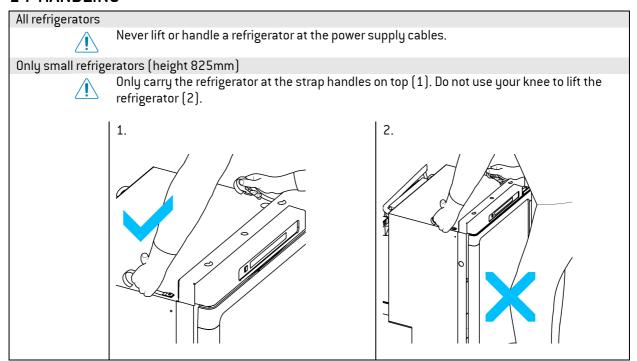


See movie 'N3000 series - door conversion N3141/N3142' for more detailed information.





14 HANDLING



OPTIONS

15 VENTILATOR KIT

The Ventilator Kit enhances the cooling performance of the refrigerator in very high ambient temperatures.

The Ventilator Kit can be installed on all Thetford refrigerators.

Installation

See installation instructions p/n 632850

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