

SKOPE PEGASUS

# PG250/400/550Prepr-2

Horizontal 1/1 Gastronorm  
REMOTE Prep Chiller



SKOPE PEGASUS Horizontal Gastronorm Remote Prep Chiller  
PG250/400/550Prepr-2  
User Manual

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# CONTENTS

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## 1 Installation

Safety First	4
Fitting the Legs or Castors	5
Adjustable Legs	5
Adjustable Castors	5
Castor Mounting Plates	5
Positioning the Cabinet	6
Location	6
Ventilation	6
Power Supply	6
Shelving	7
Loading Product	7
Sliding Covers	8
Refrigeration System	9
Refrigeration Practice	9
Drain	9
Electrical	9
Refrigeration lines	9

## 2 Operation

Automatic Start-Up	10
Refrigeration Unit	10
Electronic Controller	10
Cabinet Lighting	10
Electronic Controller	11
Controller Display	11
Controller Operation	12
Controller Alarms	12
Programming	13
Setpoint	15
Manual Defrost	15
Continuous Refrigeration	15

## 3 Servicing

Lighting	16
Cabinet Interior Lights	16
Cleaning	17
Cabinet	17
Sliding Covers	17
Food Preparation Pans	17
Wiring	18
Cabinet Wiring Diagram	18
Refrigeration Unit Wiring Diagram	20
Models: UE50/60FAR	20
Troubleshooting	22
Advanced Servicing	22

# 1 Installation

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**Safety First** Always observe safety precautions when using any electrical appliance. Read these instructions carefully and retain them for future reference.

- When the appliance is used by or near young children or infirm persons, close supervision is necessary, especially to ensure children do not play with it.
- Do **not** use this appliance for other than its intended use.
- Do **not** cover the grilles or block the entry or exhaust of airflow by placing objects up against the refrigeration unit.
- Do **not** probe any opening.
- Only use this appliance with the voltage specified on the rating label.
- Ensure the appliance has adequate ventilation as this is essential to economical, high performance.
- Be careful not to touch moving parts and hot surfaces.
- For your own safety and that of others, ensure that all electrical work is done by authorised personnel.
- If the power supply flexible cord becomes damaged, it must be replaced by an authorised service agent or similarly qualified person in order to avoid a hazard.
- Ensure all necessary safety precautions are observed during installation or removal of the refrigeration unit.
- The appliance is not designed to be stable while in motion. Use extreme caution when moving or transporting it.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.

**CAUTION**

**Never** overload the power supply, which could damage the chiller and product. See the rating label inside the cabinet for the safe power supply and current draw.

**WARNING**

**Always** disconnect the chiller from the mains power supply before cleaning or maintenance.

## Fitting the Legs or Castors

Packed inside the the cabinet is a set of adjustable height legs and a set of adjustable height castors. Either of these sets can be fitted to the cabinet depending on specific height and manoeuvrability requirements. The legs or castors should be fitted to the base of the cabinet before final positioning of the chiller. Do **not** lay the chiller onto its back when fitting the legs or castors.

**Adjustable Legs** The adjustable legs screw into the castor mounting plates attached to the bottom of the cabinet. The adjustable legs can adjust the cabinet height up to 30mm.

To adjust the height of each leg, turn the black plastic foot at the bottom of the leg counter-clockwise to raise the height or clockwise to lower (see Figure 2 below).

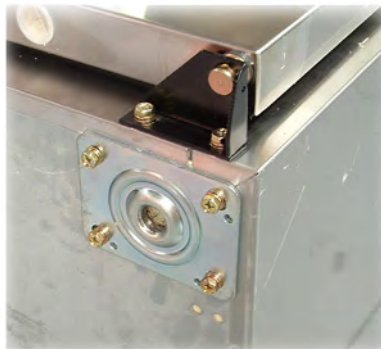


Figure 1: Castor Mounting Plate

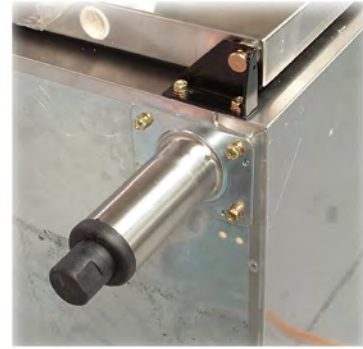


Figure 2: Adjustable Leg

**Adjustable Castors** The adjustable castors screw into the castor mounting plates attached to the bottom of the cabinet. The two lockable castors should be fitted to the front of the cabinet (see Figure 3 below) and the non-locking castors fitted to the rear (see Figure 4 below). The adjustable castors can adjust the cabinet height up to 15mm.

To adjust the height of each castor, loosen the lock nut and turn the castor counter-clockwise to raise the height or clockwise to lower. Re-tighten each lock nut after final adjustment has been made.



Figure 3:  
Lockable Castor (front)



Castor Mounting Plate

Figure 4:  
Non-Locking Castor (rear)

**Castor Mounting Plates** If the chiller is intended to be mounted on a plinth, the castor mounting plates attached to the bottom of the cabinet can be removed to provide a flat bottom. Each castor mounting plate is held in place by four pozi-drive hexagon head screws (see Figure 1 above).

## Positioning the Cabinet

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**Location** When positioning the cabinet, avoid direct sunlight and warm draughts etc. The cabinet must NOT be situated where it is affected by warm or hot air from adjacent equipment (above 30°C), as this will compromise the airflow and performance of the chiller.

The cabinet must be positioned on a level surface for the doors to shut and seal correctly, and to prevent the condensate tray from overflowing. Adequate allowance should be made for door opening.

Always ensure that the top of the cabinet is shielded from impact and moisture, with either a SKOPE provided bench top or with a custom or existing bench top.

**Ventilation** For efficient operation of the chiller, it is essential that adequate ventilation be provided around the front of the refrigeration unit. Normal operating conditions should not exceed 30°C at 65% RH (climatic class 5).

It is critical that the hot refrigeration exhaust air is not restricted and that it can easily flow out and away from the front of the cabinet.

**Never** store cardboard cartons or other items in front of the refrigeration unit. The ventilation slots in the unit front cover must be kept clear at all times.

### When installing the cabinet

- Avoid direct sunlight and warm draughts etc.
- Allow adequate space for the door/s and/or drawer/s to open fully.
- Ensure the cabinet is positioned on a level surface so the door/s shut and seal correctly and to prevent the condensate tray from overflowing.

### IMPORTANT:

For correct operation, the sliding covers must stay on the cabinet and should cover the food preparation pans when not in use.

**Power Supply** The chiller is supplied with a 1.8m flexible power cord and plug, stored inside the refrigeration unit compartment. Before final positioning of the chiller, retrieve the power cord from inside the unit compartment and feed the cord through the rear of the cabinet and connect to the power supply (see Figure 5 below). For convenience, any surplus cord length may be left inside the unit compartment.

Be careful not to overload the power supply. Check the rating label inside the cabinet for maximum current.

Once the chiller has been installed it can be disconnected from the mains power supply by turning off the cabinet isolating switch and unplugging the unit supply isolation flex, located inside the refrigeration unit compartment.

## Shelving

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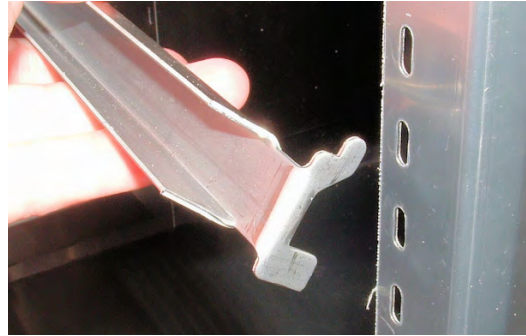
The cabinet is supplied with two sets of shelves and shelf support brackets per door. The shelves can be positioned at different heights to suit various products.

### To fit the shelves

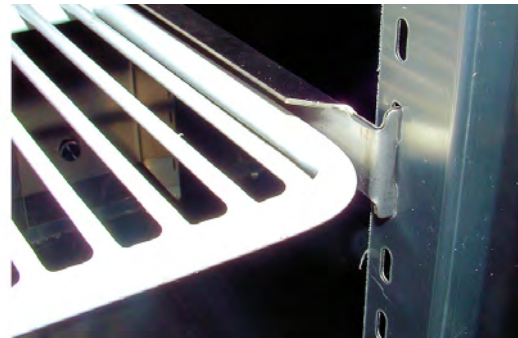
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1. Unpack the shelving items from inside the cabinet.
  2. Establish the desired position for each of the shelves, based on the height of the product intended to go on each shelf.
- 

3. Fit the shelf support brackets into the corresponding slots in both the front and back support rails. Each shelf requires two support brackets.



4. Slide each shelf into the support brackets.



**Loading Product** The chiller should be left running for 30 minutes before loading with product. When loading the cabinet shelves with product:

- ▣ Allow air space around all the product, to ensure even cooling and efficient operation of the chiller.
- ▣ Do not allow products to overhang the front of the shelf as this could prevent the doors from shutting. Leave an airspace of at least 75mm above product loaded on the top shelf.
- ▣ Do not exceed a maximum loading of 20kg per shelf.
- ▣ Remove some product if the shelves are flexing or bending.

## Sliding Covers

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The Prep chiller is supplied with the following quantity of food preparation pans and sliding covers:

Cabinet Model	Doors	Pans	Covers
PG250Prepr-2	2 Door	4	2
PG400Prepr-2	3 Door	7	2
PG550Prepr-2	4 Door	10	4

For correct operation of the chiller, the sliding covers must stay on the cabinet and should cover the food preparation pans when not in use. Fit the sliding covers as per Figure 5 below.

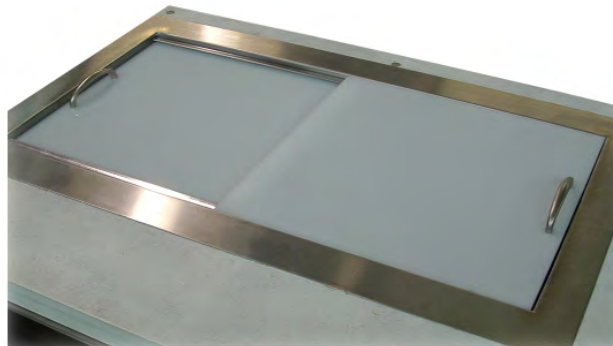


Figure 5: Sliding Covers



## Refrigeration System

**Refrigeration Practice** Installation must be performed by a refrigeration tradesperson, to an appropriate standard complying with all local regulations.

Performance depends on the overall installation (including condensing unit). Cabinet suitability must always be quantified for the application. The final responsibility for condensing unit performance and component selection rest with the installer. The installer must check matters such as:

- Do not allow products to overhang the front of the shelf as this could prevent the doors from shutting. Leave an airspace of at least 75mm above product loaded on the top shelf.
- Heat and Refrigeration load
- Variable operating conditions (usage, ambient, humidity)
- Refrigeration pipe sizing and length (distance, elevation, pressure drop)
- Location and ventilation (cabinet and condensing unit)
- Drainage and power supply
- Evacuating the unit fully prior to charging

**Drain** A 350mm long, 19mm O.D. PVC drain hose is supplied. All drainage is to conform to local regulations, covering removal of condensate to waste water. Ensure the cabinet is level and the drain is trapped with adequate fall. Venting the drain may be required for a restrictive run. Use rigid PVC pipe for the drain and ensure the drain has minimum fall of 50mm per metre of drain length.

**Electrical** The cabinet is supplied with a 3-core 10 Amp mains flex and plug. The cabinet lighting and centre pillar heater elements are protected by a 3 Amp fuse, located in the unit junction box.

**Refrigeration lines** A 1/4" liquid line and 3/8" suction line are provided to attach pipe lines to. The suction line must be insulated.

The electronic controller supplied with the cabinet can switch a solenoid. No solenoid is supplied with the standard remote unit. If a solenoid is fitted and controlled by the electronic controller, the solenoid will need connected to the connector block inside the unit junction box.

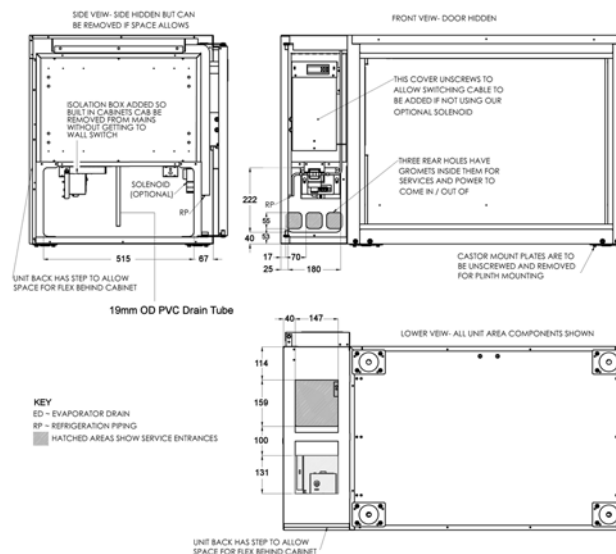


Figure 6: Refrigeration Services

## 2 Operation

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### Automatic Start-Up

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Connect the cabinet to the mains power supply and check operation of the refrigeration unit, electronic controller and cabinet lighting.

Ensure the cabinet isolating switch, located inside the refrigeration unit compartment, is turned on.

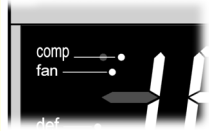
**Refrigeration Unit** The refrigeration unit evaporator and condenser fans should all operate continuously from the time the cabinet is plugged in. The internal cabinet air will continue to circulate at all times.

The compressor will start after approximately one minute. The compressor will switch off when the cabinet internal temperature reaches approximately +1.5°C, and on again at approximately +4°C.

**Electronic Controller** When the cabinet is connected to the power supply:



The electronic controller will display the cabinet temperature.

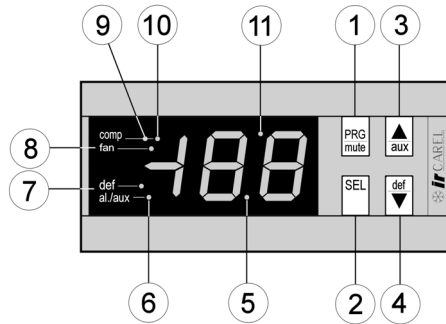


The 'Compressor' and 'Fan' LEDs will indicate when the compressor and evaporator fan are operating.

**Cabinet Lighting** The interior lighting will go on when a cabinet door is opened. To replace an LED tube see service instructions on page 16.

## Electronic Controller

### Controller Display








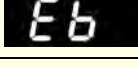



Item	Icon	Function
1		Silences alarm buzzer Activates reset procedure
2		Displays setpoint in run mode
3		Adjustment locked out Activates and deactivates 'continuous refrigeration mode' with <b>def</b> key
4		Adjustment locked out Activates manual defrost cycle Activates and deactivates 'continuous refrigeration mode' with <b>aux</b> key
5		Decimal point indicator
6		Unused
7		Defrost cycle ON indicator
8		Evaporator fan ON indicator
9		'Continuous refrigeration mode' ON indicator (fast freeze)
10		Compressor ON indicator
11		Remote controller indicator

**Controller Operation** The operation of the chiller is controlled by a pre-programmed microprocessor. The Microprocessor display indicates the temperature of the cabinet ambient probe, except during a defrost where the temperature of the cabinet probe is locked in, and during an alarm condition.

At alarm activation, the display indicates the type of alarm signal, and an audible alarm sounds. The alarm can be muted by pressing the **PRG/mute** key on the controller.

**Controller Alarms** A flashing LED indicates an alarm. The following is a list of alarms the controller displays:

Alarm code	Description
	Faulty ambient probe
	Faulty defrost probe
	High pressure fault
	Low (minimum) temperature alarm
	High (maximum) temperature alarm *
	Defrost timed out
	Data acquisition failure
	
	

\* **NOTE:** Alarm 'HI' may activate during initial pull-down cycle, after being first powered up. The alarm can be muted and will automatically reset when the cabinet passes the alarm setpoint.

**To reset an alarm**

1. Clean the condenser radiator fins and remove any obstruction to the airflow.
2. Ensure the cabinet environment is below 35°C.
3. Unplug the cabinet from the power supply for 1 minute, then re-connect to the power supply.
4. Check cabinet product loading to ensure ventilation slots are not blocked and that product does not overhang the shelves.
5. If alarm persists, contact a SKOPE authorised refrigeration service agent.

**Programming** To prevent unauthorised modification, the controller is factory set with the keypad locked.

To make permanent program changes, including changing the setpoint and forcing a manual defrost, the keypad must first be unlocked, by entering an access code. Entering the access code allows the keypad to be unlocked and locked by altering parameter 'H2' (see below for instructions on how to unlock the keypad).

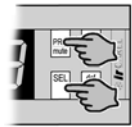
**Controller lock parameter**

Parameter	Setting	Description
H2	00	Keypad locked
H2	01	Keypad unlocked

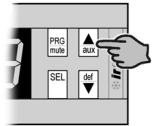
After making program changes, it is recommended that the keypad is locked (see over page for instructions on how to lock the keypad).

**To unlock the keypad**

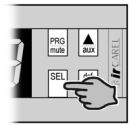
1. Press and hold both the **PRG** and **SEL** keys simultaneously for more than 5 seconds until '00' is displayed.



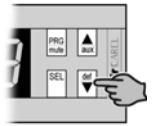
2. Press the **UP** (aux) key until '22' is displayed.



3. Press the **SEL** key to confirm selection. The first parameter 'C' is displayed.



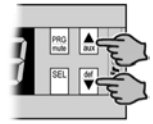
4. Press the **DOWN** (def) key twice, until 'H2' is displayed.



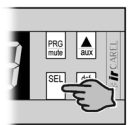
5. Press the **SEL** key to display the value of the parameter.



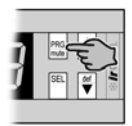
6. Press the **UP** (aux) key to increase, or the **DOWN** (def) key to decrease, until '01' is displayed.



7. Press the **SEL** key to accept the value.



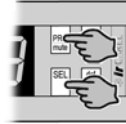
8. Press the **PRG** key to lock in the new value and to exit program.



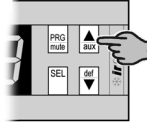
### To lock the keypad

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1. Press and hold both the **PRG** and **SEL** keys simultaneously for more than 5 seconds until '00' is displayed.



- 
2. Press the **UP** (aux) key until '22' is displayed.



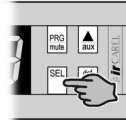
- 
3. Press the **SEL** key to confirm selection. The first parameter 'C' is displayed.



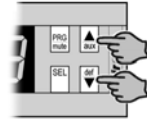
- 
4. Press the **DOWN** (def) key twice, until 'H2' is displayed.



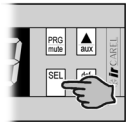
- 
5. Press the **SEL** key to display the value of the parameter.



- 
6. Press the **UP** (aux) key to increase, or the **DOWN** (def) key to decrease, until '00' is displayed.



- 
7. Press the **SEL** key to accept the value.



- 
8. Press the **PRG** key to lock in the new value and to exit program.



**Setpoint** The chiller setpoint is factory set at 1.5°C. If necessary, the standard setting can be adjusted between 0°C and 6°C. SKOPE do not recommend the setpoint be changed unless absolutely necessary, and then only in small increments at a time.

**To display the set point**

1. Unlock the keypad.

2. Press the **SEL** key for 1 second and the Set Point value will be displayed.



**Freezer set point**

Factory setting:	1.5°C
Maximum:	6°C
Minimum:	0°C

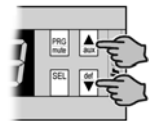
**To change the set point**

1. Unlock the keypad.

2. Press the **SEL** key for 1 second and the Setpoint value will be displayed. On releasing the key, the display will flash.



3. To change the Setpoint value, press the **UP** (aux) or **DOWN** (def) keys.



4. Press the **SEL** key to lock in the value and return to cabinet temperature. The Setpoint value is stored even when the procedure is exited, by waiting for the time-out to expire.



**Manual Defrost To start a manual defrost**

1. Unlock the keypad.

2. Press and hold both the **PRG** and **SEL** keys simultaneously for more than 5 seconds until '00' is displayed.



**Continuous Refrigeration** To achieve a fast product temperature pull-down, activate continuous refrigeration mode.

**To enter continuous refrigeration mode**

1. Unlock the keypad.

2. To achieve a fast product pull-down, press **UP** (aux) and **DOWN** (def) together, (down key first) to initiate a 'Continuous Refrigeration' mode.



## 3 Servicing

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### Lighting

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**Cabinet Interior Lights** Depending on the model, the cabinet interior is lit by one or two 5 Watt T8 LED tubes, fitted behind the centre pillars.

#### To replace the interior LED light tube

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1. Open the refrigeration compartment door and isolate the chiller from the power supply by switching off the mains isolation switch.



2. Remove the diffuser by squeezing it until it is released from the housing, and then push the diffuser out of the way (multiple door cabinet pictured for clarity).



3. Rotate the LED tube until the pins on the ends of the tube align with the slots, then slide it out. **Note:** access can be made easier by removing the shelves.



4. Fit a new LED tube and clip the diffuser back into place
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-



## Cleaning

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**Cabinet** When necessary, wipe both the interior and exterior of the cabinet with a damp cloth. Ensure the chiller is disconnected from the mains power supply before cleaning the cabinet.

### CAUTION

Disconnect the cabinet from the mains power supply before cleaning the condenser coil or washing the cabinet with water.

The chiller can be disconnected from the mains power supply by turning off the cabinet isolating switch and unplugging the unit supply isolation flex, located inside the refrigeration unit compartment.

**Sliding Covers** At regular intervals the sliding covers, guide rails, air diffuser panels and food preparation pans should be removed from the cabinet and washed with soapy water.

#### To remove the sliding covers

1. Lift the cover up, which will raise the guide rails, allowing the covers to slide out.



#### To remove the guide rails and air diffuser panels

1. Remove the sliding covers (see above) and then lift both guide rails out. The air diffuser panels can then be removed for cleaning.

**Food Preparation** The food preparation pans can be easily removed from the cabinet for cleaning.

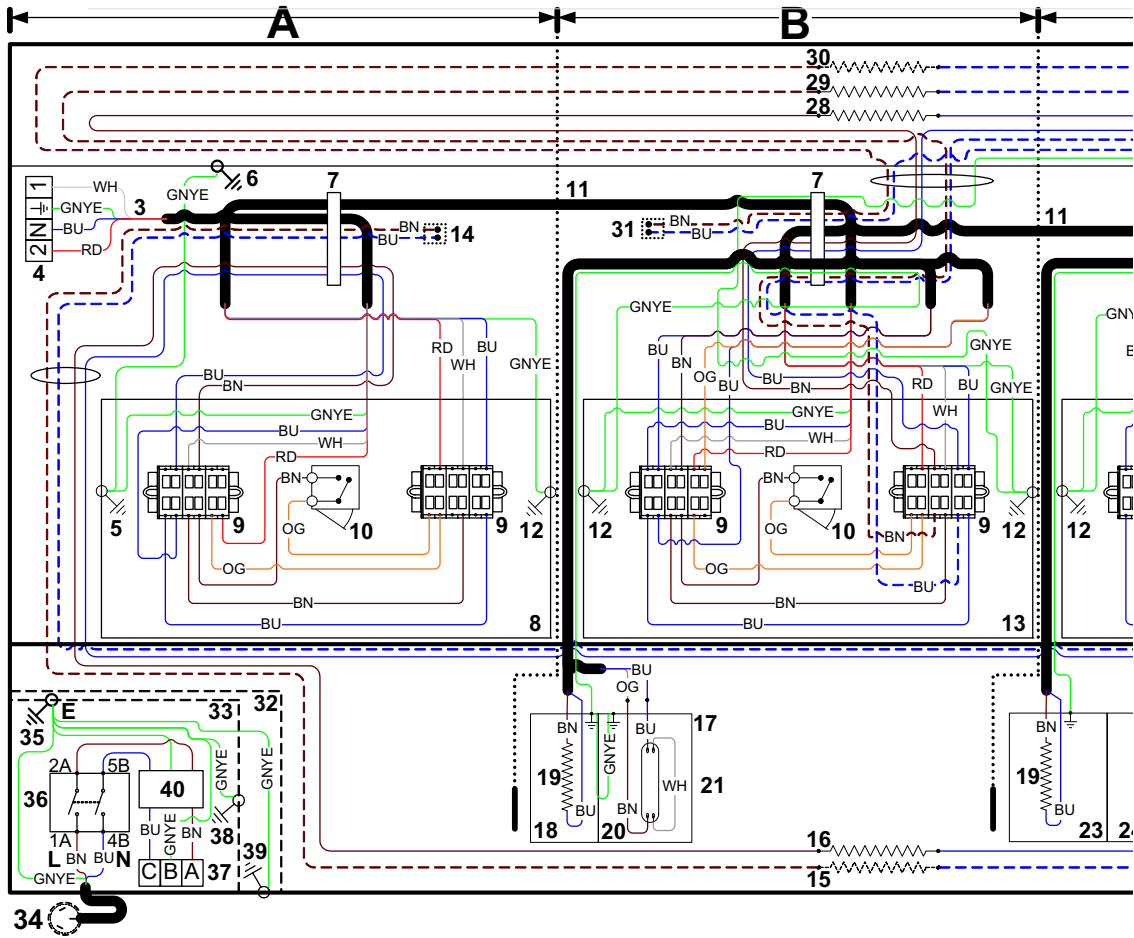
#### Pans To remove the guide rails and air diffuser panels

1. Open the sliding door and lift the pan from the cabinet.



# Wiring

## Cabinet Wiring Diagram



\* For refrigeration unit wiring details, refer to 'Refrigeration Unit Wiring Diagram' on the following pages.

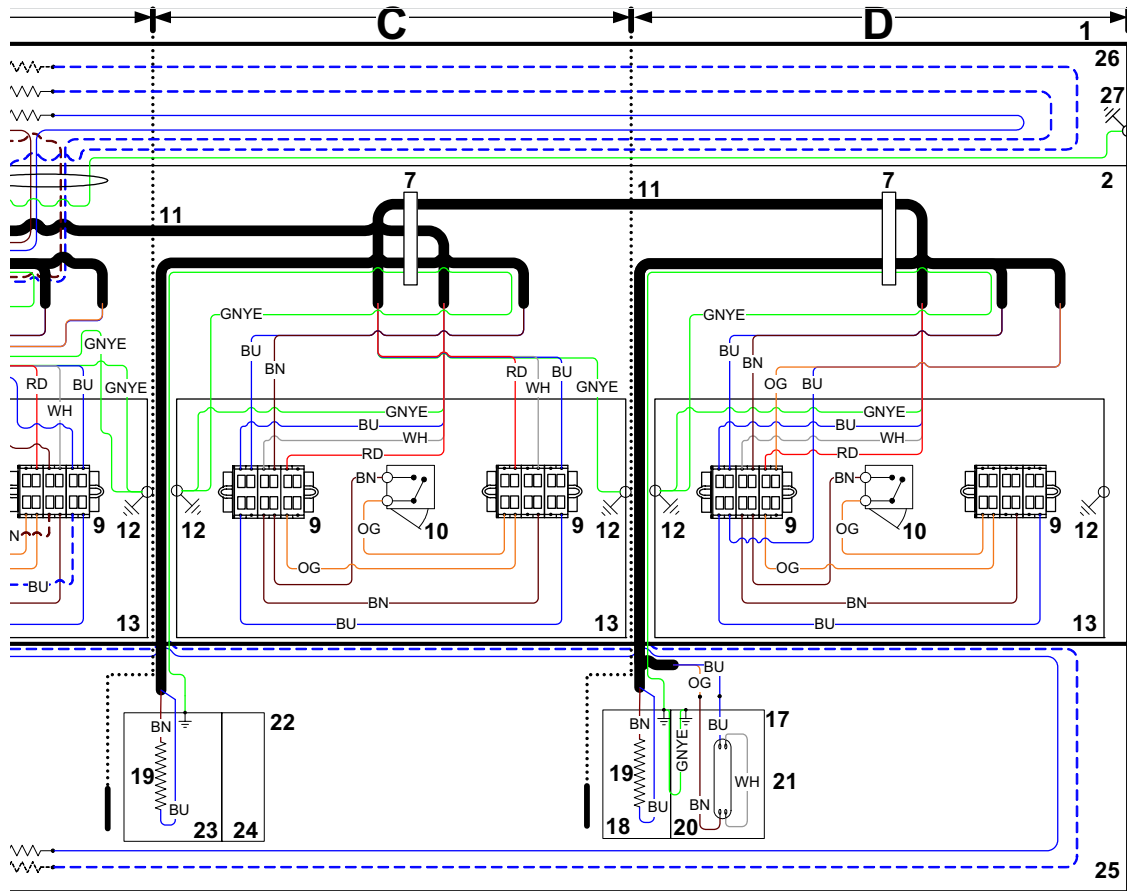
\*\* For remote refrigerators, the mains isolation box assembly is part of the refrigeration unit assembly.

## Cabinet Wiring Component Key

Item	Description	Item	Description
1	Foamed cabinet	11	4-Core link flex
2	Cabinet stepped front top	12	Link flex earth connections
3	Cabinet supply flex with 4-Pole ENSTO plug	13	Cabinet wiring switched extension tray
4	4-Pole ENSTO plug*	14	Spare cabinet fascia heater wire supply wires (if available)
5	Cabinet supply flex earth connection	15	Spare cabinet fascia heater wire (not connected, if available)
6	Main cabinet chassis earth connection	16	Cabinet fascia heater wire (chiller, otherwise freezer)
7	Flex tie (to guide wires & flexes on stepped cabinet front top)	17	Heated lit centre pillar assembly
8	Cabinet wiring switched supply tray	18	Heated lit centre pillar fascia assembly
9	3-Pole screwless connector block	19	Centre pillar fascia heater wire (chiller, otherwise freezer)
10	Single pole door activated switch	20	Heated lit centre pillar back assembly

## Model Key

Cabinet Model	Portions of Wiring Diagram
1-Door	Not offered as standard in this range
2-Door	Portions A & B. Exclude 'Outer' connected bench top heater wire for Prep cabinet (item 29) - included in Pizza cabinet only
3-Door	Portions A, B & D. Exclude 'Outer' connected bench top heater wire for Prep cabinet (item 29) - included in Pizza cabinet only
4-Door	Portions A, B, C & D. Exclude 'Outer' connected bench top heater wire for Prep cabinet (item 29) - included in Pizza cabinet only



### Cabinet Wiring Component Key (continued)

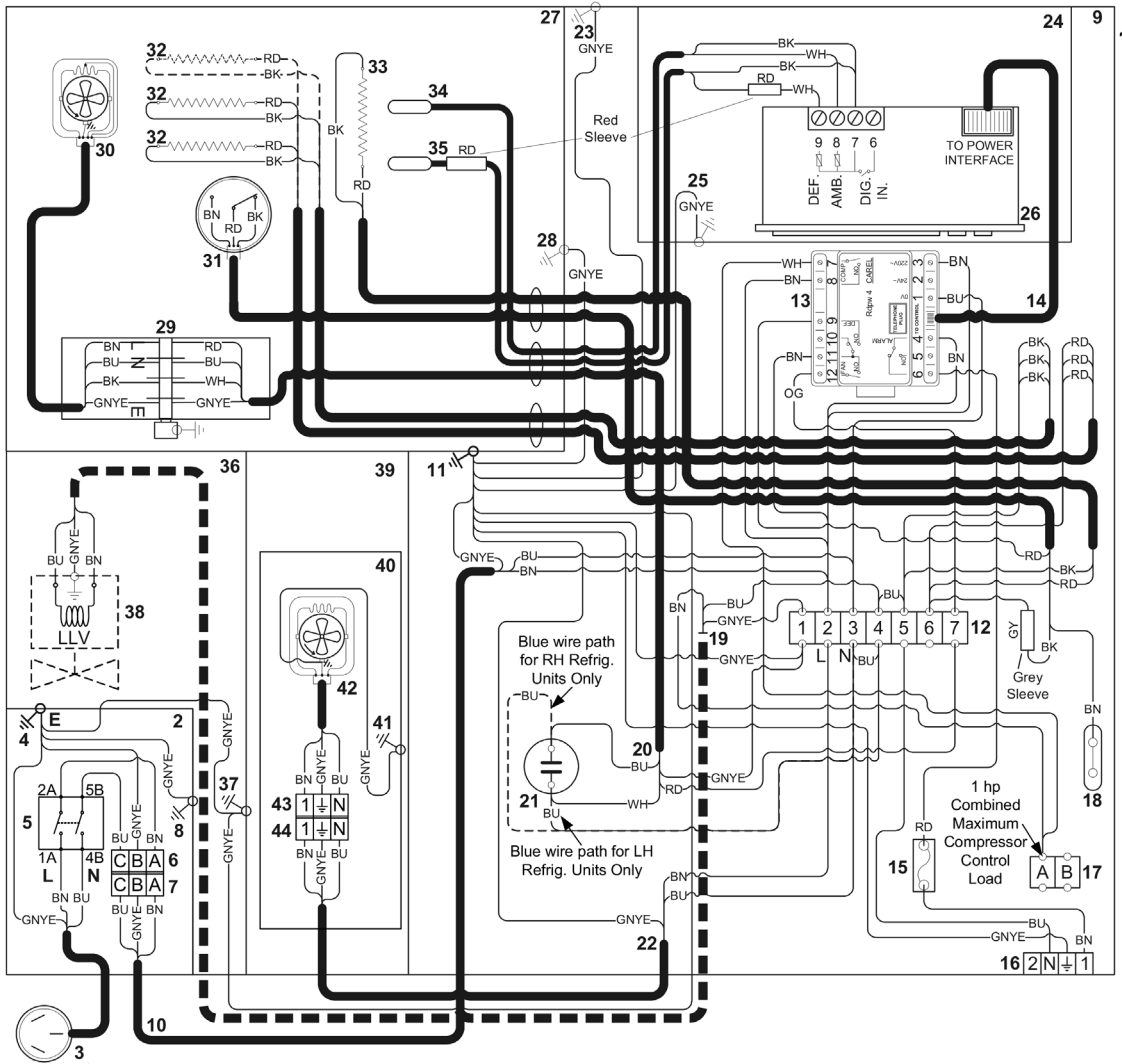
Item	Description	Item	Description
21	LED tube cabinet light (5W)	31	Spare bench top heater wire supply wires (if available)
22	Heated centre pillar assembly (no light)	32	Refrigeration unit enclosure
23	Heated centre pillar fascia assembly	33	Mains isolation box assembly (**Not on REMOTE cabinets)
24	Heated centre pillar back assembly	34	Mains supply flex (with 3-Pin plug)
25	Cabinet fascia	35	Mains supply earth connection
26	Heated bench top assembly	36	2-Pole isolation switch
27	Heated bench top assembly earth connection	37	3-Pole BLUE panel mount ENSTO socket - isolation socket
28	Bench top heater wire (Prep, otherwise Pizza)	38	Mains isolation box cover earth connection
29	Outer bench top heater wire (exists for Pizza cabinet only)	39	Refrigeration unit enclosure earth connection
30	Spare bench top heater wire (not connected, if available)	40	Schaffer EMI filter

### Wire Colour Key

BK	Black	BU	Blue
BN	Brown	GY	Grey
RD	Red	WH	White
OG	Orange	GNYE	Green-Yellow
GN	Green	Based upon IEC 757 Standard	

## Refrigeration Unit Wiring Diagram

Models: UE50/60FAR



\*LE denotes the motor direction as viewed from the lead end.

\*\*For refrigeration cabinet wiring details, refer to 'Cabinet Wiring Diagram' on the previous pages.

### Wire Colour Key

BK	Black	BU	Blue
BN	Brown	GY	Grey
RD	Red	WH	White
OG	Orange	GNYE	Green-Yellow
GN	Green	Based upon IEC 757 Standard	

## Refrigeration Unit Wiring Component Key

Models: UE50/60ACD

Item	Description	Item	Description
1	Refrigeration Unit Assembly	23	Unit Wiring Junction Box Cover Earth Connection
2	Mains Isolation Box Assembly	24	Electronic Controller Enclosure Assy
3	Mains Supply Flex (with 3-pin plug fitted)	25	Electronic Controller Enclosure Earth Connection
4	Mains Supply Earth Connection	26	Programmed Electronic Controller
5	2-Pole Isolation Switch	27	Evaporator Box Assembly
6	3-Pole Blue Panel Mount ENSTO Socket - Isolation Socket	28	Evaporator Box Exterior Earth Connection
7	3-Pole Blue Free ENSTO Plug	29	Terminal Box (for evaporator fan flex extension)
8	Mains Isolation Box Cover Earth	30	Evaporator Fan (CW - LE for LH unit, CCW - LE for RH unit)
9	Unit Wiring Junction Box Assembly	31	Thermal Cut-Out
10	Refrigeration Unit Supply Isolation Flex (with 3-pole Blue ENSTO plug fitted)	32	Defrost Element 182W at 230V (2 for UE50FAR unit, 3 for UE60FAR unit)
11	Unit Supply Isolation Flex Earth	33	Defrost Sump Element (312W at 230V)
12	7-Pole Terminal Block	34	Cabinet Ambient Temperature Probe (1.5m)
13	Electronic Controller Module	35	Evaporator Coil Temperature Probe (1.5m) (red sleeve)
14	Electronic Controller Connection Cable	36	Lower Unit Area Assembly
15	Cabinet Supply Fuse (3A)	37	Lower Unit Area Assembly Earth Connection
16	4-Pole Panel Mount ENSTO Socket	38	Liquid Line Solenoid Valve
17	2-Pole Terminal Block	39	Unit Enclosure Door
18	Inline Insulator (for unused terminal)	40	Anti-Condensation Fan Assembly
19	3-Core Solenoid Valve Supply Flex	41	Anti-Condensation Fan Assembly Earth Connection
20	Evaporator Fan 4-Core Extension Flex	42	Anti-Condensation Fan (fitted with 3-pole ENSTO plug) (CW - LE*)
21	Evaporator Fan Capacitor	43	3-Pole Free ENSTO Plug
22	Anti-Condensation Fan 3-Core Socket Flex (with 3-pole ENSTO socket fitted)	44	3-Pole Free ENSTO Socket

## Troubleshooting

Complaint	Possible Cause	Repair
1. Cabinet not operating and no controller display:	<ul style="list-style-type: none"> <li>Loss of power supply.</li> </ul>	<ul style="list-style-type: none"> <li>Check mains power supply.</li> <li>Check that the cabinet isolating switch is turned on (see page 6).</li> </ul>
2. Cabinet lights not operating:	<ul style="list-style-type: none"> <li>Failed LED light tube.</li> <li>Cabinet ENSTO supply plug not plugged into control box.</li> </ul>	<ul style="list-style-type: none"> <li>Replace LED light tube (see page 16).</li> <li>Reconnect plug (see page 22).</li> </ul>
3. Power consumption is higher than expected:	<ul style="list-style-type: none"> <li>Cabinet doors are opened excessively.</li> <li>Sliding covers are left open for an excessive amount of time.</li> </ul>	<ul style="list-style-type: none"> <li>Keep door/s open for minimum time.</li> <li>Keep covers opened for minimum time.</li> </ul>
4. Product is too warm and spoiling:	<ul style="list-style-type: none"> <li>Restricted cabinet airflow.</li> <li>Temperature setpoint is too warm.</li> </ul>	<ul style="list-style-type: none"> <li>Ensure product is not blocking airflow slots and the product is no closer than 75mm from the cabinet top.</li> <li>Adjust setpoint (see page 15).</li> </ul>
5. Warm cabinet temperatures and/or compressor operating for long periods (more than 1 hour):	<ul style="list-style-type: none"> <li>Poor refrigeration unit ventilation.</li> </ul>	<ul style="list-style-type: none"> <li>Ensure the cabinet is installed with good ventilation around the refrigeration unit (see page 6).</li> </ul>

## Advanced Servicing

Servicing should be carried out by an authorised service agent. Detailed service and spares information is available in the SKOPE Pegasus Service Manual and detailed technical information on the SKOPE ir33 Controller can be found in the SKOPE Pegasus Technicians Manual.

# SKOPE Contacts

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